

3765

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<220>
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<222> (373)
<223> n equals a,t,g, or c

<400> 4139
gtaaaaatcat aatcgtggat taccgcatta aatagttcta aatcagtnga actgctaata 60
acccttggtt atattgtatt ctctgatata gcattatcag agaaaactgt aggaggaata 120
gtctctgttg acagtgggtca aaggtagatt agagaatagt gggtttcct caagtctgaa 180
nctgacctac taatcagcac atgtgtgagg gaactgccaa ggcagagaaa gaattttcag 240
aanggaggag gatgacagtc tctggagctc aacacggcta agccatctaa attttctctt 300
tactttgngt tacatnaatg atgaattgaa attncaaatt cataaanaca gttatgattc 360
tcaactacct gangttgcgt tcaacatca 389

<210> 4140
<211> 55
<212> DNA
<213> Homo sapiens

<220>
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<222> (29)
<223> n equals a,t,g, or c

<220>
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<222> (39)
<223> n equals a,t,g, or c

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<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<400> 4140
gaatacgtaa aaaagtataa gggaagcant gcattcgann tactgcacta ttntc 55

<210> 4141
<211> 251
<212> DNA
<213> Homo sapiens

3766

<220>
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<222> (115)
<223> n equals a,t,g, or c

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<222> (134)
<223> n equals a,t,g, or c

<220>
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<222> (172)
<223> n equals a,t,g, or c

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<222> (191)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (204)
<223> n equals a,t,g, or c

<220>
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<222> (219)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (233)
<223> n equals a,t,g, or c

<400> 4141
gctgcagatt tgtgttacag ttatttcagt atatgtcctg tccctgntaa tgtgtagggt 60
tgtaataggg agatacatTT catatcttct ttgttttct catgctgcct gccanacagn 120
cttgtagcatg gtanatactg aataactatc aaatgaataa gtagttatta anaccaagat 180
actttacaga naaaacttta ccanccttctc taggactang accccaaatc tngnctcaga 240

3767

gctgctagct t

251

<210> 4142

<211> 96

<212> DNA

<213> Homo sapiens

<220>

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<222> (5)

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<220>

<221> misc feature

<222> (72)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (90)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (91)

<223> n equals a,t,g, or c

<400> 4142

ggaanaaaag tctttaatga tgaacatatt ttcaccttaa gcttaaaatg tcttgctttt 60

gaatgggtatc tnagcttaag gngaaaatan nattaa 96

<210> 4143

<211> 443

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (291)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

3768

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (412)
<223> n equals a,t,g, or c

<400> 4143
gggaaaatgc aaaagcacat atatgtttta atatctttat gggctctggt caaggcagtg 60
ctgagagggga ggggttatag cttcaggagg gaaccagctt ctgataaaca caatctgcta 120
ggaacttggg aaaggaatca gagagctgcc cttcagcgat tatttaaatt attgttaaag 180
aatacacaat ttggggtatt gggatttttc tccttttctc tgagacattc caccatttta 240
atTTTTgtaa ctgcttattt atgtgaaaag gggtattttt acttagctta nctatgtcag 300
ccaatccgat tgccttaggt gaaagaaacc accgaaatcc ctcagggtccc ttggtcagga 360
gcctctcaag attttttttg tcagangctn caaatagaaa ntaagaaaag gntttcttca 420
tttcatggct agagctagat ttt 443

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<211> 385
<212> DNA
<213> Homo sapiens

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<222> (142)
<223> n equals a,t,g, or c

<220>
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<222> (237)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (243)
<223> n equals a,t,g, or c

<220>

3769

<221> misc feature
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<220>
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 <222> (285)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (317)
 <223> n equals a,t,g, or c

<220>
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 <222> (351)
 <223> n equals a,t,g, or c

<220>
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 <222> (368)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (382)
 <223> n equals a,t,g, or c

<220>
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 <222> (384)
 <223> n equals a,t,g, or c

<400> 4144
 gntctaatta aaggtgcagc acttcaaacg tgatttatac agttgttttt ataggaaaat 60
 ggaaatatat tgtagggata ggtagcagga cactaatagt gagtcccact catgactgta 120
 agtagtgact ttggggaggta tnttaaatac tgatgtcatt aagtaattaa cttgaattac 180
 ttgtatttta ctttttagtta tcaagctgac tgctattata gtaaatatgt gtcttanact 240
 tanagtgaaa tggaaactgc ttagaagctt aactgtgtan gagtnaaagt gcacgggaac 300
 agatgggaac atttaantta tagaaataat tctggtggag ttctagggct ngtgcctatt 360
 tgttttantt tgttgtgaag antna 385

<210> 4145
 <211> 151
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (2)

3770

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (72)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (103)

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<220>

<221> misc feature

<222> (113)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (114)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (133)

<223> n equals a,t,g, or c

<400> 4145

gnaagcatgt ttaatttnaa tagaagagag naaaggatat ggctggtcnt ggaacatcaa 60
gttggttcctt gntccaactg catgaaatgc tggagaaaat tanaacattg cttnagagaa 120
ttggcctctt tanaatcaat tgccccagga a 151

<210> 4146

<211> 436

<212> DNA

<213> Homo sapiens

3771

<220>
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<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (434)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<400> 4146
gtatgatttt ctgtgtatga gatcatggga tctgtgagta ggtagtttta cttttttctt 60
tcacatatga atgactttgt atatatatat atattttttt ttttctaatt gttctggatg 120
gaacttctag tacagtgttg aacacaatga tgaaagtgag catcagtgtc gtgttcctga 180
tcttaaagct ttgggtgcca acaattcagg tgggtgattgt tatgggtttt gcataaaggt 240
gttttatcat gtgaagaaaa ttcgaatctt cagcttattg gtgggtttta tcattaaata 300
cgttgattat ctttaagtac tttctgtaac agttgagata aacgtgtttt tcccatcatt 360
ttaattatat agtatacgga aaaggaatgg ctttagtatg ttgaaaaacc tttgattttc 420
tgaaaaaaaa annnnn 436

<210> 4147
<211> 414
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

3772

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<400> 4147

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ggtaacatgc ctttcacatg tccaccttct tgccatgttc cagctgctct cccaacctgg 60
aaggccgtct ccccttagcc aagtcctcct caggcttgga gaacttctc agcgtcacct 120
ccttcattga gccttctctg atcactccat ccctctccta cccctccctc cccaacct 180
caatgtataa attgcttctt gatgcttagc attcacaatt tttgattgat cgttatttgt 240
gtgtgtgtgt ccgatctcac aagtatatg taaacccttc ggtgggtggg ggccatatcc 300
tagatcgcca gcggccgctc tagaggatcc aagcttacgt acgctgcat gcnacgtcat 360
anctcttcta tagtgnccacc taaattcaat tcactggncg cgntttacaa cgct      414
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<210> 4148

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3773

<222> (413)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<400> 4148

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gaagccatag atgaggaccc atccttgact cctctccctc atcctccatt ttcagtcagt 60
agttagaaac cttcttgtaa ttctgtgaa cccatttact tgcctctct ctactcttag 120
caccttaact tagactctct ttatttccca cctacctgaa ttctctaaaa gcatcatcca 180
cttttgaagg cttaggactt tgcgtatctt ccctcagggc ttagcttaga aaatcaggac 240
ttctctgacc tgttcctata ccctcaggtg agcttggtgc tgatgtcccc ttctncctct 300
tcateccatac ctctantctt cttctccccg tctcccatgg gctctcacag caccctgtgc 360
tatecttctg acacatataa catttgcn gn aatcgctagc ttttctgggt canaggncag 420
naactatggt gactcatatt at 442

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<210> 4149

<211> 412

<212> DNA

<213> Homo sapiens

<220>

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<222> (336)

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<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (399)

3774

<223> n equals a,t,g, or c

<400> 4149

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gaaaataatg taattgtaat ttgaaatgt ggttttcctg aaatcaagtc atctatagtt 60
gatatgtttt atttcattgg ttaattttta catggagaaa accaaaatga tacttactga 120
actgtgtgta attgttcctt ttattttttt ggtacctatt tgacttacca tggagttaac 180
atcatgaatt tattgcacat tgttcaaaag gaaccaggag gttttttttg tcaacattgt 240
gatgtatatt cctttgaaga tagtaactgt agatggaaaa acttgtgcta taaagctaga 300
tgctttccta aatcagatgt tttgggtcaag tagttnngact cagtatangt agggagatat 360
ttaagtataa aatacaacan aaggaagtct aaatattnng aatctttgtt aa 412
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<210> 4150

<211> 497

<212> DNA

<213> Homo sapiens

<400> 4150

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ggattgcact tcctgaccaa tcttattttg gagaaagatg gagacgataa tcctgtctgt 60
cgactgccag acttctaatt caatagataa cgttcttgag aaagacccca gaccaaaaag 120
agacacagat ataacttctg aaagtgacta tggaaacaga aaagaatgca atagaaaagt 180
tcctcgaaga tcaaaaatcc cttatgatgc caaaaccatt caaactatta agcaccacaa 240
taaaaactac aactcttttg taagttgtaa tcgtaaaatg aaaccacctt accttaaaga 300
attatatgta agctcatctt tagcaaactg tcctatgtta caagaatcag aaaagccaaa 360
gactgaaata attaaagtag accaaagtca ctcagaagac aacacttacc agtcccttgt 420
tgaacagcta gaccaagaga gagagaagag atggagagct gagcaagccg aaaataaact 480
catggattat attgatg 497
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<210> 4151

<211> 392

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (239)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (241)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (263)

<223> n equals a,t,g, or c

3775

<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c

<220>
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<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c

<400> 4151
gaaagtatat aaatataaaa tgtataaatg atggatagat ttttgattg atttgcaaaa 60
tgcagattat atttgatagg ctatagtatg tagatattcc ttttaggaat attacagctg 120
taaattatat gagacttgcc agtcaaatgc tatttggttt aaaaaaatta ttgcaatctc 180
aagttaattg aatattttta aatcccacat tcanagttaa aaacactggt tttcaatgng 240
nctattagtg ttgtcacttg ttnatagata aatatataaa taacctgttt ggatcctggt 300
cctttttaac tgatccnttg gcaattctga gcatttattt gatgacttaa tatttntcac 360
tanccttggga gaacanatga accatttntt ca 392

<210> 4152
<211> 71
<212> DNA
<213> Homo sapiens

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<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<220>

3776

<221> misc feature
<222> (64)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<400> 4152
gtgcttttat aaagttgaac aaattgaatt tagacattca ggcaaagcta ctggggggttg 60
nntnctncna c 71

<210> 4153
<211> 509
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (448)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (482)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (486)
<223> n equals a,t,g, or c

<220>
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<222> (494)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (496)

3777

<223> n equals a,t,g, or c

<400> 4153

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gccctgacat tacaggaaat ctacttagca acctcgtaag tgagaacaag tctaaaagca 60
gataaaatta attatcctag atcctagatg caacttttaa cttggcagtt attcccacag 120
cattttctgtt tggatttctt acaattgcct tacactcaga attcttacta agggggccatt 180
accatagtag atattacttg gcaaataata aatacaggga ttgagcaagc tgatgtaatt 240
gactgtcttg atttaaaatg tgtattaaac ttagatctac agaatggtag ggaggcagaa 300
acaagcaaat gacttaattt gtattgatgc caaattggtg cttgcttgag cgcttcaaaa 360
tagcagagtt gttaacacta gctacaactc taaggacat nccataagta gggcacatag 420
ggaatttgaa ttcataccag aattttangg attttatttt accttctaata atataattaa 480
gntctnattg tggngntaac cctttttttt 509
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<210> 4154

<211> 453

<212> DNA

<213> Homo sapiens

<400> 4154

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ggcgttttagt gtgttctaata tttaattggt ttatatcctg aaaccaatgg tgaaaagtaa 60
tttcattgag ggtacctttt caatgcctga gtagcataca gaatcatgat tatgagactt 120
tcttttatct ttctttataa aaatatgtgt ttttttttgt tgaaagtgtt ggtctcttta 180
aattcagatt ttgtcttagg acagtaaaac ccagggtgac tgactcagga aacagttgtc 240
tgctagtcac tcataaatgt acggtcatat gtctactctt cttaaataac caccttttat 300
aacacaaatg taaaatagta tcagtctagc caatgatgaa ctctggaatc cacttagtct 360
tcagtaagta tgtgctgtcc tctaaacttt gccctgaagc caggggatct tctcctaata 420
tatgtgacat aaaaatccat tttccatgta aaa 453
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<210> 4155

<211> 169

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (17)

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<220>

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<223> n equals a,t,g, or c

<220>

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<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

3778

<223> n equals a,t,g, or c

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<221> misc feature

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<220>

<221> misc feature

<222> (101)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (102)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

<400> 4155

ggccttaaaaa aaaatgnttn ttaaagactt tggaaccaag gttggangga atttantgga 60
aaaaactttg gaaaaaaagg aagggtncaa cttcaataat nnanatagaa cagaaagttt 120
aancttggct ggtgggtaaa gaagaagaat ggccagttat tgaaatatg 169

<210> 4156

<211> 172

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

3779

<220>
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<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (167)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<400> 4156
cacgaaaaac atctactact atctntcaag ccagtanatg ccaaatttct ttntgatcan 60
tagtgatnta caactcaagt gccatgttgc tctacaggtg cactgctata acgacagcat 120
ttccagaatn gcatgttctt nnattgtttg tgtcgcactt atatganatg tn 172

<210> 4157
<211> 485
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

3780

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (439)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (450)
<223> n equals a,t,g, or c

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<221> misc feature
<222> (472)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (484)
<223> n equals a,t,g, or c

<400> 4157
tagactntga aataagtga atgactgggc actgatcatg atgtatatct gttacataca 60
taatgatttg tagactgaag agctagcagt atagtgttga ctccatgcca ttattcacag 120
atactatatt gaagtttgaa ctgtgttgct ggcagactgg cattatttag ctaacctgtg 180
gtaactgaaa ttcttgcag tcagaattct gcaaagtaag gactacctgt atctatatat 240
ttttttctct aagcactgct ttagttttat ctacacaaatt ttgacatttt gtgttctcat 300
attaattaaa ttcaagttac tttctaattc ctcttttgac tttctcattg acacataggt 360
tattttataa gtgtgtttta ttttctaata tttgggggga cttctganat gtctttttat 420
tattttattc taattaatnc cattatggtg ggtaaatata ctctgaatga tntccattct 480
tatna 485

<210> 4158
<211> 324
<212> DNA
<213> Homo sapiens

<220>
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3781

<220>
<221> misc feature
<222> (314)
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<220>
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<222> (315)
<223> n equals a,t,g, or c

<220>
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<222> (318)
<223> n equals a,t,g, or c

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gcctcagtgg acgacatgct caaggtgagc tcccgggtgt caagcggagg ccttttcctc 60
caggacgacc ctgtaggtac caggaggggt ggggcagggt tgagcccttc gtggtctggt 120
tgccacacta gctgcccttg ggaggggcca gtgtcccatg tggactaagg aggccaggcc 180
tggccagact ccacatagcc cagagctgac cgcttgcccc aaatcaaagc atcttggtcca 240
ggtcagactc cttgaccagg actgccattg tgggtaaaaa ttagccttgt gtggtggtgt 300
gttncntgtg gtcnnagntt actt 324

<210> 4159
<211> 134
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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3782

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<220>

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<222> (114)

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<220>

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<222> (118)

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<220>

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<222> (126)

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<400> 4159

cnnttaccaa caggtnagcg cacgctgaat ggcgaatgng acgcgccctg aagacggagc 60
attaaaacac ggcaggaatg naggttggtt acaacacagg gtgacccgct acantacncc 120
atacnggcta acag 134

<210> 4160

<211> 84

<212> DNA

<213> Homo sapiens

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<222> (56)

<223> n equals a,t,g, or c

<220>

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<222> (62)

<223> n equals a,t,g, or c

<220>

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<222> (65)

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<222> (70)

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<220>

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<222> (84)

<223> n equals a,t,g, or c

3783

<400> 4160

gaaaaggatc aaaggatatt gaattcccgg tccgacagaa agaggcttat atcaanagag 60
tngtngatcn ggcaaaagat cttn 84

<210> 4161

<211> 310

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (10)

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<222> (66)

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<222> (159)

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<220>

3784

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<220>
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<220>
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cccnncggtc cgggacatga atagtcgcca ggcttgccgg ctctttctct cccaaggcag 120
aggagatcgt tgggtttcaa ggccccgcgg gcatttctng ncggncctgc ggagagagtt 180
cttcactacc acaaccaant gagggatatg ataggcngtc agtggatata acttctttan 240
aacaaaggaa attaaactttt gatacccatg cattgggttna ggacttggaa actcatgnga 300
tttnacaaaa 310

<210> 4162
<211> 126
<212> DNA
<213> Homo sapiens

<220>
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<222> (11)
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<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

3785

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
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<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (89)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

<220>
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<222> (125)
<223> n equals a,t,g, or c

<400> 4162
tcctacggca ngntctaata cgactcacta taggcaaagn tncaacgcct gcagttaccg 60
gcacgaaatt cccgggtcga cccacgcgnc cgctcaataa atattctcat tgtcaatcac 120
ccnana 126

<210> 4163
<211> 145
<212> DNA
<213> Homo sapiens

<220>
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<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

3786

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<223> n equals a,t,g, or c

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<222> (87)
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<220>
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<222> (131)
<223> n equals a,t,g, or c

<220>
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<222> (134)
<223> n equals a,t,g, or c

<400> 4163
acgcctnccn gtaccgggtcc ggaattcccg ggtcgaccca cgcgtcgggc ccgcagaagc 60
gagatnacna agggaaacgtc atcggttngga aagcgtcgggc aataagacgc acactgttgt 120
gccgctcgctg nggntctaag gccta 145

<210> 4164
<211> 230
<212> DNA
<213> Homo sapiens

<220>
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<222> (13)
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<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
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<222> (123)
<223> n equals a,t,g, or c

<220>
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<222> (136)
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<220>

3787

<221> misc feature
<222> (187)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (193)
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<220>
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<222> (210)
<223> n equals a,t,g, or c

<220>
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<222> (220)
<223> n equals a,t,g, or c

<400> 4164
ggaattccat ttntgggtcat attatggcag cttacaagcc tggcacagtc cagttatgca 60
gtcagccttg gtgcctggct gccagccaca ttctataccc tatttggggg tgaatgggtgc 120
anngtttctc ctgcangtat gttccctga ctcttctttg cccccagaa tatgctttag 180
ggagtencag acnacagaac actgcccacn ggcgctgtcn atcactctat 230

<210> 4165
<211> 135
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<220>
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<220>

3789

<222> (69)
<223> n equals a,t,g, or c

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<222> (101)
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<220>
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<222> (117)
<223> n equals a,t,g, or c

<400> 4166
tgggacgcct gcaggnacng gaccggaatt cccgggtcga ccnacgcgtt cggaggaana 60
ctgtgcagnt accagcacac atgcaaagcg gaaaggcgac ntttctaggt gcccgangca 120
atacaagcat 130

<210> 4167
<211> 119
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (91)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (107)

3790

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (115)

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<400> 4167

tntaatacga ctcantatag ggaaagntgg tacgcctgca ggtaccggtc cggaatatcc 60
cgggtcganc cacgcgtccg tgggattttt ntgtgttact tttggcngta ttttnaaac 119

<210> 4168

<211> 171

<212> DNA

<213> Homo sapiens

<220>

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<222> (27)

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<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

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<220>

<221> misc feature

<222> (61)

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<220>

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<222> (83)

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<220>

<221> misc feature

<222> (139)

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<220>

<221> misc feature

<222> (164)

<223> n equals a,t,g, or c

3791

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<222> (166)
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<220>
<221> misc feature
<222> (168)
<223> n equals a,t,g, or c

<220>
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<222> (171)
<223> n equals a,t,g, or c

<400> 4168
cataacaatt ttacacagga aaacagntat gaccatgatt actggcaagn tntaatacga 60
ntcactatag ggaaaggtgg tangcctgca ggtaccggtc cggaattccg agggacgacc 120
cacgcgtccg ctttgaatna gagtcgaagg ttaaaatgag agangnanga n 171

<210> 4169
<211> 169
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
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<222> (62)
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<220>
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<222> (68)
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<220>

3792

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<220>
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<222> (131)
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<220>
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<222> (137)
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<220>
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<222> (143)
<223> n equals a,t,g, or c

<220>
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<222> (169)
<223> n equals a,t,g, or c

<400> 4169
tatgaccatg attactggca agntntaata cgantcacta tagggaaagg tgagacgcct 60
gnaggtancg gaccggaatt cccggatacg acaccacgcg tccgagagag tgtgcttgct 120
cagagacntg nagccantca ganacaggat taaatggtgc tgtgagtn 169

<210> 4170
<211> 169
<212> DNA
<213> Homo sapiens

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<222> (28)
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<220>
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3793

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<220>
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<220>
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<222> (138)
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<220>
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<220>
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<222> (147)
<223> n equals a,t,g, or c

<220>
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<222> (156)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (164)
<223> n equals a,t,g, or c

<400> 4170
aacaggtatg accatganta cggcaagntn taatacgact cantataggg aaagntggga 60
cgcggtgcagg aaccgggtccg gaattccagg gtcgacccac gcgaccgaaa gtgtatgtag 120
tatataaaga atttggtnta tgantgnaga atcaanataa taanatgta 169

<210> 4171
<211> 160
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (52)

3794

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<220>

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<222> (53)

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<220>

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<222> (76)

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<220>

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<222> (91)

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<222> (112)

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<220>

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<222> (128)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (139)

<223> n equals a,t,g, or c

<400> 4171

gaaacccaag gaaagccggt cggtnaaggt cgggtccgga attccccgggt cnncccacgc 60
gtccggtgta tcctgnttta aaaaaatgta ntttttttg aaataaacct tnatattctg 120
tatatttntc aaggggggng agaacctttt gaatgtgtca 160

<210> 4172

<211> 258

<212> DNA

<213> Homo sapiens

<220>

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<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

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3795

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<220>
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<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
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<220>
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<222> (180)
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<220>
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3796

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<222> (240)
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<220>
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<222> (245)
<223> n equals a,t,g, or c

<400> 4172
acaaccttac acaggnagnc agntatgacc atgattacgn caagctctaa tacgactcac 60
tatagggaaa gntggtagcg ctgcaggtac cgggccggaa ttcccggntc gaccacgcg 120
tncgttctat ttcttttgac aaatnngaac atttctaaaa ctaaaagagt ctttntattn 180
ttaaaacaca agtagaatga tttaaatagg attttaatga atttttggca agtggntgtn 240
ttaantttta aattgaga 258

<210> 4173
<211> 150
<212> DNA
<213> Homo sapiens

<220>
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<222> (17)
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<220>
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<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c

<220>
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<222> (45)
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<220>
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<222> (79)
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<220>
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<222> (104)
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3797

<220>
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<222> (129)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (147)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c

<400> 4173
gctctaatac gactcantat agttgattgc tggnacgcct gcanntaccg ggccggaatt 60
cccggatcga cccacgcgnc cgaattgctg gcagccattt atgntaaaaa tgcatatatg 120
cattctgtna ggaagacttt atactgntan 150

<210> 4174
<211> 201
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
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<222> (57)
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3798

<220>
<221> misc feature
<222> (142)
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<220>
<221> misc feature
<222> (164)
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<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (190)
<223> n equals a,t,g, or c

<400> 4174
naccgctgna ggnaccgggc cggaattccc gttcgancca cgcgtccgcc cacgcgnccg 60
catatttata gcttatcact taattttgtg tgccagggaa ggcattggcca gaattaatat 120
gccacagtac cctcatcatt gnttttatag ccattcatgc cccncttcc tntggcacat 180
tttctaagan attatttcat a 201

<210> 4175
<211> 131
<212> DNA
<213> Homo sapiens

<220>
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<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

3799

<220>
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<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

<400> 4175
tgattacnnc aagctctant acgactcaat atagtgtattg ctggnacgcc tgcagntacc 60
ggtcgcggaat tcccgggtcg acccagcggt cgcgccgtcc ccgtctctcg natttgtggn 120
ctncttggt c 131

<210> 4176
<211> 181
<212> DNA
<213> Homo sapiens

<220>
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<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (51)
<223> n equals a,t,g, or c

<220>
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<222> (59)
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<220>

3800

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<222> (60)
<223> n equals a,t,g, or c

<220>
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<222> (72)
<223> n equals a,t,g, or c

<220>
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<220>
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<222> (149)
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<220>
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<222> (160)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (166)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<400> 4176
aaacagcnct gaccatgatt acgccaagct ctaatacgac tcactatagg nattgcttnn 60
acgcctgcag gnaccggacc ggaattcccg aatcgaccca cgcgtccgct aacaggccnc 120
atacttaaga ttccatctac tttaagttna aaggattttt agaatnacct taagtgcnaa 180
a 181

<210> 4177
<211> 296
<212> DNA
<213> Homo sapiens

<220>
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<220>

3801

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<222> (7)
<223> n equals a,t,g, or c

<220>
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<222> (11)
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<220>
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<223> n equals a,t,g, or c

<220>
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<220>
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<220>
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<222> (136)
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<220>
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<222> (141)
<223> n equals a,t,g, or c

<220>
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<222> (149)
<223> n equals a,t,g, or c

<220>
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<222> (163)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature

3802

<222> (239)

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<220>

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<222> (247)

<223> n equals a,t,g, or c

<220>

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<222> (257)

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<220>

<221> misc feature

<222> (270)

<223> n equals a,t,g, or c

<400> 4177

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gaattcccgg gtcgacccac gcgtncgegg acgcgtgggg ccctgttccg ttacccgngc 120
tacctcagcg gctacnagac nacactggnc ctgggcccgc tgnatgagtc accctgtgtc 180
cacgccacgc ccccgctgag cctccccag aacctcacag ntgaaggac aggcaaccnt 240
ggagccngcg tgtcagncat ccgggaactn ttcaacttct ccagctgcca gggcca 296
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<210> 4178

<211> 166

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<220>

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<222> (77)

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<220>

3803

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<223> n equals a,t,g, or c

<220>
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<222> (137)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (154)
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aaggggtggtt ttcagntnrgc tgagatcttg nttttctttt tgtgttcaca gatgaagccc 120
ggggcaagaa ctgtgngnrc ttggtacatt gctnggctgg cattag 166

<210> 4179
<211> 297
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (28)
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<220>
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<220>
<221> misc feature

3804

<222> (54)
<223> n equals a,t,g, or c

<220>
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<222> (111)
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<220>
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<222> (159)
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<220>
<221> misc feature
<222> (164)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (181)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (191)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (196)
<223> n equals a,t,g, or c

<220>
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<222> (236)
<223> n equals a,t,g, or c

<220>
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<222> (238)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)

3805

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c

<400> 4179

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gactacttgc ttcgaaccgc tagacagtga acaaaggaac ttgatagctg ncctggacca 120
ggacgtcttg gcacaacctt atccggaatg caactacanc tacnccatag aacatcttac 180
nccccatcaa ntgagntgag ggggcgcaac ccgggttggc cccattggca acccangncc 240
tttagtagtc ccncccccca aaaaaanccc tttaggcatt tccttgggcn aaaatcg 297
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<210> 4180

<211> 128

<212> DNA

<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (79)

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<220>

<221> misc feature

<222> (80)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (113)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3806

<222> (114)

<223> n equals a,t,g, or c

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anaagcttgc cacaattggn gtataaagca tgtggccata cccaatttca ganngcttac 120
caatagag 128

<210> 4181

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (397)

<223> n equals a,t,g, or c

<400> 4181

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gaagctctag aatgtctaac agttcagcca ggatcacata ggaatattcc gattcagagg 120
cagaaatctg tgggtctgcac tatgctttca ggtcagatta gaggctcatt ccttttgaca 180
ccatgccatt gtgagcttcc aaaacaagat ccgctctcag gcaagcctct gaatgggtta 240
caaagttcaa aatggagcca agcacaagaa gagttgccaa gagtgatata gaacgctctg 300
tggggaagctg ntgtggaaaa tcagcacacc cagcgctgt agtaatttaa ccaatacagc 360
anaaaaacgt agcttgctg tttttnaaaa aacctnncac aga 403

<210> 4182

<211> 174

<212> DNA

<213> Homo sapiens

3807

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<220>
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<220>
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<222> (155)
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<220>
<221> misc feature
<222> (163)
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3808

<400> 4182

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ggagagnaat caggaaaccc attgatagga ttatcgccag gcatgacctc tntcaatngc 120
cactttctat tcttttgaag tagaactntg gagcnacagg gcnacagacg gcgg 174

<210> 4183

<211> 581

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (6)

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<220>

<221> misc feature

<222> (523)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (527)

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<220>

<221> misc feature

<222> (539)

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<220>

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<222> (560)

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<220>

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<222> (561)

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gtctttccaa ggcactacaa ttagggcttt gcacccaaat acccttgccat cattttgggc 120
attttgtcct ggaacagagg ttcagctggg agaccctca cacacaggtg aaggcgtggc 180
tgtagaacct cagacccctt ggtctcctca ggaatgaagg tcattgccat cctcaccctc 240
ctcctcttct gctgtaagta gagagcttgg tgggtcagca ccaagcttct gtcttcctgt 300

3809

ttatgtcagt gggagggggg actctccagg tggcaccagg tgagggaagt cacaagtcct 360
gcagaaaaga atcaggaaag gaacgggctc ccaccaacgt cctcttgctt ctgtttctgc 420
tataaaatgg gctgatccca gtgttgggat cttataaagt gtctaggaaa tcagagggtg 480
ccaaccattt gctagaaagg gagtttgact actattttac ccncctnacc ctcaagagnc 540
ttttttcctt tggatgctan naggcctttat ttaaggccat t 581

<210> 4184

<211> 76

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (52)

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<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (72)

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<400> 4184

gcggacgcgt gggattgaat aggtcagaag tagaatcttt tcaatagggn anaaagttgn 60
ggtgnagagg antatg 76

<210> 4185

<211> 66

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

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<220>

3810

<221> misc feature
<222> (50)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (64)
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<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<400> 4185
aacagcttaa gtccatgggt aatccgttna tagaaattgt gtttgctaan aaggtgccat 60
ttannc 66

<210> 4186
<211> 156
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (49)
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<220>
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<222> (119)
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<222> (122)
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<220>
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<222> (136)
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<220>
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<222> (143)

3811

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<220>

<221> misc feature

<222> (146)

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<400> 4186

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gaaaactgtc ttcatatatt taaaagtgtg atcattttct taaaagttnt acaaaagctt 60
tgtattttct atttaaaaaa tctttgcccc atttggtgaa gatattctct tatttgttnt 120
cntaaaaatt accttnatag ctntgntttt aatatt 156
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<210> 4187

<211> 172

<212> DNA

<213> Homo sapiens

<220>

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<222> (133)

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<220>

<221> misc feature

<222> (137)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (152)

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<220>

<221> misc feature

<222> (153)

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<220>

<221> misc feature

<222> (169)

<223> n equals a,t,g, or c

<400> 4187

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gcttttgaat tttgttcaac atgatcaata ttacatgtta ggatcattca gatgtagtga 60
atgagagttt atagtggttt acttatttaa atatttgact tttaagttcc tcacaatata 120
tttcattctt ttntctnctg ttgcatggat anngcatata catacctana aa 172
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<210> 4188

<211> 138

<212> DNA

<213> Homo sapiens

3812

<220>
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<220>
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<220>
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<222> (38)
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<220>
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<222> (77)
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<220>
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<220>
<221> misc feature
<222> (128)
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<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (137)
<223> n equals a,t,g, or c

<400> 4188
cgaccgncgg ctgcggcntg gacggggcat gncatgtngc cattgactgc ggcgcggtcg 60
gccatgcagg actactntgt aagccccata ggagatcctt ggcgcacaaat gctgcgggttc 120
tncctcgngg gcttnang 138

3813

<210> 4189

<211> 67

<212> DNA

<213> Homo sapiens

<220>

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<222> (22)

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<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<400> 4189

gactagttct agatcgcgag cngccgcct tttttccct ttttacattt ttcttnttgt 60
ttatgat 67

<210> 4190

<211> 453

<212> DNA

<213> Homo sapiens

<220>

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<222> (2)

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<220>

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<222> (12)

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<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (53)

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<220>

<221> misc feature

3814

<222> (60)
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<220>
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<220>
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<222> (96)
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<220>
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<220>
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<220>
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<220>
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<220>
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3815

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<222> (231)

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<220>

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<222> (364)

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<220>

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<222> (450)

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<220>

<221> misc feature

<222> (453)

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<400> 4190

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ctgcaaaccn ttggcttgct taaggaatga acaganggtg tnaagggctn attaagaant 120
aaantgaant gacatttana aatatggaaa tccattaaga gtntttaagg agcttgggga 180
gaggagcttt aataagaaaa gccatctgca ttgacagcca agaaccattg nttctttggt 240
gaaaactgac ctttcaacc tgcacatgca gttgaggata agtttactga tcttgccaca 300
gatgagtttc aaacagaagg aataaggaaa acagtatcaa ttgtttccct ggaactncat 360
tcanatttca aggcgagtgc aatcagaaaag gatgatttct acttgctggg ttgatttaat 420
ccctttccan atgattgaca ttttctgctn ggn 453

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<210> 4191

<211> 104

<212> DNA

<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

3816

<220>
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<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (95)
<223> n equals a,t,g, or c

<220>
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<222> (103)
<223> n equals a,t,g, or c

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tgatctttac ctgntgactc tggaattgaa taaanaaaaa ttnc 104

<210> 4192
<211> 393
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
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<222> (48)
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<220>
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<220>

3817

<221> misc feature
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<220>
<221> misc feature
<222> (81)
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<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (156)
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<220>
<221> misc feature
<222> (172)
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<220>
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<220>
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<222> (225)
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<220>
<221> misc feature

3818

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<222> (264)
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<220>
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<222> (283)
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<220>
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<220>
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<222> (292)
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<222> (359)

3819

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<222> (386)

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<221> misc feature

<222> (391)

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<400> 4192

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ttttccnttc agccctgaca acccatccac acacgggcan gcctgttnat ntacactgnt 60
gccactact ctctccagct ncacatgctg tacctggatc attctgaagc aaattccgan 120
cattacatca ttgtgtccat aaatatttct aacatnctta aatatacaat cngaattcaa 180
gcatctccca ttgtncaca aatgtttggc tgatgntgta nttgnattgn ttgtattagg 240
attaaagcaa ggnccatata tngnatntat tngaaatgtc tгнаantctc tntccatcta 300
cagagtttan canatttgaa cgttgctggg tgaaatcccg aggtgtcatt tgacatggnt 360
ctctgaactt atctttccta taaaanggta nta 393
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<210> 4193

<211> 267

<212> DNA

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3820

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<222> (243)

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<222> (249)

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<220>

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<222> (259)

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ctctgtgttt acatactaata ttgtgtaaga aatgcatttt agtctgtgta cctcaacctg 120
ctgtttgttt cctanagggtg ttagtantnt ttaaatacaa gtaagactta agaggatatt 180
tgatgttatt tacctggata ttttattccc cttttatnta tncacaggaa attgacattc 240
tangaccant aaaatgaana caaaatt 267

<210> 4194

<211> 301

<212> DNA

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3821

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tcttacacgc acttcttcat atgtggttcc ctcttgnga tcaccaggag gtccccaaaa 120
gtccctgatt gcagggtang tttgcagctc tgtttcagtc cattcttttg gggtagctag 180
gaggtgtcat tnactctgca ncatgatggc aggagcanaa gccacatntc ctccccata 240
aatacctctg tctttcctta cgctaataac aaaanaaaaa anaaaaaaaaa aagggcggcc 300
g 301

<210> 4195
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3822

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gtaataaaaa aaataacaga acccttaaag ggnatccaca ntgantggnt 110

<210> 4196
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<222> (433)
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3823

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aggcttcgtc tcagaaggct ctatctgctg ggctggcggc catccccgtg ttgggtggac 120
cccgagcacg gttgcctgag gtccgatggc ccgagagctg ggactcagtt cttggcctgc 180
tagcggctga acaggccgca catctcactt cagttgtggc ctcattcagc agatgactct 240
ggaaccatcc tctgttacct gcagatcctg tcccatgggc tctggcccca agatgttggg 300
gggccccacg gagagttgac ttggtagagt tcctttctgg gaagaaagta ggagtggctg 360
accaggccct gctcatcacc cggatagagg acacggaccc ttgtgtggna ttttggcatt 420
ttggcttnaa agnccaatgn accattgttt gccanaaatt t 461
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<210> 4197

<211> 376

<212> DNA

<213> Homo sapiens

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<220>

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<222> (73)

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<220>

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<222> (101)

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<222> (120)

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3824

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<220>
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<220>
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<220>
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<220>

3825

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<222> (331)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
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tcanaccaag ganacattta accatctctc cccctttcct ntgggggtgac tgcanttgan 120
gaaagnatgc catggggtaa ggggacattg gtggncacat tttggtgaca gacccttgc 180
gttgctctctg tgnccccatt ntctggactn tgccctgncc tcctagtgc tgtgactccc 240
tctctttnan cccaccccc atggtatgta tattcnttac aagtcctcca caagagcagn 300
tgtctangat gcgngaggg gaggctcctt nccttaggga gcgtggatag aaaggagcat 360
acttgttgnt gtattt 376

<210> 4198
<211> 65
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<400> 4198
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ganct 65

3826

<210> 4199
<211> 355
<212> DNA
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<220>
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<221> misc feature
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<221> misc feature
<222> (294)
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<220>
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<222> (339)
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<220>
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3827

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gaaganngtg tagaagaaat ctgccattta tattaaaaag aggaaaagga gcctctttct 60
taagacatct ctggatgaat gtttaagaaa ctgatggnta ttgcctntga tgaggggaat 120
tagatggcctt gaggacgaag tggatggaag actttatatt atctttaccc ctttgtgtcc 180
ttttaatttt aaactacgtg atgtaacttg ctcaaaaagt agagataaaa tttaaaacaa 240
cccgaaaaat aaactctaga tcaattctat tgcttgncaa aggctttaat taancttgag 300
ggcaattctg ccttggntaa aggtattaaa gctatgcang caccaagctg aaant 355

<210> 4200

<211> 56

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

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<400> 4200

gctantaata aacggttgaa gtattgcaat aaaacttgag ttttaaaaaa aaaaaa 56

<210> 4201

<211> 178

<212> DNA

<213> Homo sapiens

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<220>

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<222> (35)

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<220>

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<222> (65)

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3828

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<220>
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<222> (174)
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acaanatgcc cagtggcacc atatggttta ttttggtagg caggatcttt gcanatgaaa 120
aaaaaatcta catgtacttg attttaattg anttacattg anaatangct cctntgga 178

<210> 4202
<211> 50
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
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<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (41)
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<220>
<221> misc feature
<222> (50)
<223> n equals a,t,g, or c

<400> 4202
ggtcenacgg gtcnnggtac cagcacgtgc aggagtgggtg ngagctgagn 50

<210> 4203
<211> 616
<212> DNA

3829

<213> Homo sapiens

<220>

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<220>

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<222> (482)

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<220>

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<222> (565)

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<220>

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<222> (598)

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<222> (614)

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aaggcctaca agattaaata atcaagtcac tattgtgaat ttggatctaa atgacctggc 120
agaaaccatg gagatgatct tggatttaaa gaggaaaaac tcaaagcaat gtattctgat 180
caagaaatgg caggaaatgg cagctacctg atatggaaca atcaacaact gaaggtttat 240
tttgaatgag aggtgttgct caactgagag acggagtgat tgaagctgag aataaatgga 300
aacacaatca atagtcactc cagtggagta ggaaagaaag ccattccgaa gtggcagaga 360
agctgctttt tctccttgca tgctgcctgc tagtgtggat cttggcataa cagacactac 420
ttggcaaaag atccatcctt ccttttccta tactttgctc agcggcctgg aagattganc 480
tnaaaagcaa aatcacctgg atttccttgc catttggtt tcaaattgtc tcagccaatg 540
acaggctgga aagaaattga cagcntggga aaaagaggaa naatttgtgt ccaagaancc 600
ttcnccttcc catntt                                     616
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<210> 4204

3831

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<220>

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<222> (320)

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<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<400> 4205

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atgtttatat gtggagaaat ggtacaggat aggaactgtg tttgaagacc tgatgtatat 120
ttacaaatag gtagatctca ttagcttata atatttggtt ttgaagttga aggctagttt 180
tattcattgc actgtatttt gctatcagat gtgaatttat ttagaaataa agaattctgc 240
tgtgaataat tgaggaaata ctttaattcct tgacttatgt aaagaacacc ttgttcaatt 300
ggattggggg aantngttan ggtgctaagg ctctgagtga aactctnagt actgtatctg 360
tgtcaatggt                                     370
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<210> 4206

<211> 351

<212> DNA

<213> Homo sapiens

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<220>

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<222> (14)

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<220>

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<222> (27)

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3832

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<220>
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<220>
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<220>
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<220>
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<222> (208)
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<220>
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<220>

3833

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<220>
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<222> (217)
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3834

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<222> (351)

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<400> 4206

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acgcntccgg accaattncg ggacagtcaa ggattctcaa tntgnatnnt ccaggcaaga 120
gaactttgta cnccttctct gtgtggatag actncncagc gttnttccta tggaaatgcc 180
cacagggctt gacgcgtgga gactgatntg ntncatncgn tagcgcgagg nancagngtc 240
gcctcgcccn tcccaactgcg ggctcacggg gagctggcgt ctgncagtgc cttggcacgc 300
ctgggnataaa gggtggctgg angcctgtca ctggcttntg gagctgaagg n 351
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<210> 4207

<211> 391

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (154)

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<220>

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<220>

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<222> (168)

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<220>

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3835

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<222> (223)
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<222> (340)
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<220>
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<222> (342)
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<220>
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<220>
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<222> (350)
<223> n equals a,t,g, or c

<220>
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<222> (389)
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agggctctga gagctgtgct ccaggccagg ggttacacct gccctccgng gtcctccct 120
gggctccagg ggcctctggt gcggttccgg gaanaagcna caccnanaag gtgacagctg 180
agccctgcc acaccnagc ctctgacttg ctgtgttgtc canaggtgag gctgggccct 240
ccctggtctc cagcttaaac aggactgaac tccctctgtc cccagggcct cccttctggg 300
ccccctacag tctaccctac cctcctcca tgggccctgn angangggan acccaccttg 360
aagtggggga tcaagtatag gcttgacant g 391

<210> 4208
<211> 140
<212> DNA
<213> Homo sapiens

<220>
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<222> (35)
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<220>
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3836

<222> (84)

<223> n equals a,t,g, or c

<220>

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<222> (97)

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<222> (117)

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<220>

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<222> (121)

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<220>

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<222> (140)

<223> n equals a,t,g, or c

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ggaattcccg ggtcgacca cgcnttcgta cagtttntgg gaccacattg aggtggntga 120
ngatgaagac gagacgcacn 140

<210> 4209

<211> 360

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (12)

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3837

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<222> (144)

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<222> (195)

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<222> (227)

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<220>

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<222> (338)

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<220>

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<222> (347)

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<220>

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<222> (350)

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3838

<220>

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<222> (357)

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cagatagggt ctgccaaccc taccctgana tggagctgct tccagecaca tcccatcgtg 120
gcatcattgt ggctggtctc ttgngctgta tcaactgagct gtggcgctgc gtatgtggag 180
gagaagactc aatanaaaga ggagtacact angctgaagc agtacantgc cagggcntga 240
tggccctcac agcttgaaag tggaacagct gcttggtgtg actgaaagca agttgtcctg 300
ccttccttgt acttnaaacc ctgctttgtt ctgaaagnac ctgatgngcn ggttcngag 360

<210> 4210

<211> 157

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

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<220>

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<222> (26)

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<222> (30)

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<222> (87)

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3839

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<222> (140)
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<220>
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<222> (150)
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catgtataaa aanagttaca ttttanttan gcncaaaaat attatgggtgg agcctaattt 60
gatatgctct ttaagtaata ttgagtnttt caaaagatac tncataatga tgaattaaaa 120
taactttata tntctctaan gaaataacan atagtat 157

<210> 4211
<211> 215
<212> DNA
<213> Homo sapiens

<220>
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<222> (38)
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<222> (89)
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<220>
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<222> (95)
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3840

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<220>

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<222> (165)

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<220>

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<222> (166)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (181)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (209)

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<220>

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<222> (212)

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<400> 4211

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ttaatacatt accnaaaaaa aagaatgggg gaaaaagnaa aggnngcggt aaggccccct 60
acgaccgcca tgcacgctag ctctatagng caccnatcat cactgncgcg ttacaacgcg 120
tgctggaaac cctgcgtacc cactaatcgc ttgacacatc ccttnncagt gggaaacgaa 180
naggccgccg tcgccttcca cagtggcanc tnatg                               215
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<210> 4212

<211> 103

<212> DNA

<213> Homo sapiens

<220>

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<222> (19)

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<220>

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<222> (29)

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<220>

<221> misc feature

<222> (69)

3841

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<220>

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<222> (73)

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<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<400> 4212

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tgctgtanc ctncctattc tcanaccac tttcctggtg ctt 103

<210> 4213

<211> 211

<212> DNA

<213> Homo sapiens

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<222> (45)

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<220>

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<222> (79)

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<222> (108)

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3842

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<222> (181)
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<220>
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tgcnatcttc tcctaatacna cctgacccca aagtcaggct gtccgcgncct cggcctgacc 120
gtcacacagg gcggcaacag agcactaaga cgtgngacat atgaaatnga anagaacgtg 180
naacagatna ttattctctt gaatgtgata g 211

<210> 4214
<211> 162
<212> DNA
<213> Homo sapiens

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<220>
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<220>
<221> misc feature
<222> (33)
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3843

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<220>
<221> misc feature
<222> (70)
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<220>
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<222> (101)
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<220>
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<222> (130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c

<220>
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<222> (134)
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tcatgctcgn atgcatgagg ctgtgacaac cactcacgca naaagcctct cctgtcccgg 120
taaatagagtn nacngccgga agcccccgtc cccggctctc gc 162

<210> 4215
<211> 129
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (51)
<223> n equals a,t,g, or c

<220>

3844

<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (95)
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<221> misc feature
<222> (99)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<400> 4215
agtgaagtnt gcgaagataa gctcttaatt cgtggttgat ctgtatctct ngctttntaa 60
tgtaacaaaa atatcttaca gatacatgaa attangaana tctaaaagta ccattactct 120
aaactaana 129

<210> 4216
<211> 302
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (16)
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<222> (24)
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<220>
<221> misc feature

3845

<222> (96)
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<221> misc feature
<222> (102)
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<221> misc feature
<222> (130)
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<222> (146)
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<220>
<221> misc feature
<222> (151)
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<220>
<221> misc feature
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<220>
<221> misc feature
<222> (169)
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<220>
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<222> (191)
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<220>
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<220>
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3846

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<220>

<221> misc feature

<222> (229)

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<220>

<221> misc feature

<222> (256)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (291)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (298)

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<400> 4216

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cagncatgca cactcgggat cactccaaat gatagnaaag cnaaanattt aaaggggtgt 120
ctcttgatan acagaacatc accatntaag ncgctgttn acgactgtna cactgacaag 180
ttgtgggtcaa nccngaggaa tgtcaagcag acantgggtga acatttgana ggcatagtg 240
agctttgtca atgganctac ctgcatctg tggattgggc gaataaaaaa ngacacgntt 300
tg                                                                 302

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<210> 4217

<211> 127

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

3848

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<220>
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<222> (101)
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<220>
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<220>
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<220>
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<220>
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<222> (256)
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<220>
<221> misc feature
<222> (257)
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<220>
<221> misc feature
<222> (259)

3849

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (265)

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<220>

<221> misc feature

<222> (295)

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<220>

<221> misc feature

<222> (306)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (315)

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<220>

<221> misc feature

<222> (346)

<223> n equals a,t,g, or c

<400> 4218

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gtggtncaga gagtccggga ggccgtctga cnaccacagcc ngaaacagcn ctccgatccc 120
agctgataag gagctggggc tcgggtgtcta tntgtgaacc actgcacgcg gacacattac 180
aggctcgggc tgnncgtcct ctctgtctgc agctgcatct ccgctaattg ggccagctgc 240
taacattgag gntggnnncn atccttccgg cgtcccgatg gacaaggcag cctgnccacc 300
agctgngcac ttcgnctgat gacacagatg gctcatgaat gcctgngacc gggtgcggc 359

<210> 4219

<211> 139

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

3850

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<220>
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<222> (76)
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<220>
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<222> (86)
<223> n equals a,t,g, or c

<220>
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<222> (96)
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<220>
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<222> (111)
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<220>
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<222> (114)
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<400> 4219
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agtacaggcc aacctnccac tgccnctct gtcenagaa aactcgagga ntgncttctt 120
ttggtttact aactgttca 139

<210> 4220
<211> 257
<212> DNA
<213> Homo sapiens

<220>
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<222> (23)
<223> n equals a,t,g, or c

<220>
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<222> (33)
<223> n equals a,t,g, or c

<220>
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3851

<222> (34)
<223> n equals a,t,g, or c

<220>
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<222> (43)
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<220>
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<222> (48)
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<220>
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<220>
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<222> (233)
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<220>
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<222> (234)
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<220>
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<222> (252)

3852

<223> n equals a,t,g, or c

<400> 4220

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attgcttaga agaagtggcc cgctcaggga acccagccct acancgcaa atccgaaagg 120
gcaactctct ggnccctcca ggaggacccc agggntgaag gaagctgcct tgaccacatc 180
tccgcaggaa atggctcagt ccgtcaagnt gtgaaaaaag ctgnccgcgc tgnngagtcc 240
ttccaatgct gncatgg                                     257
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<210> 4221

<211> 288

<212> DNA

<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

<220>

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<222> (53)

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<220>

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<222> (66)

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<222> (73)

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<222> (84)

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<222> (148)

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3853

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<222> (288)

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<400> 4221

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tgctggtgna aggtgaaaag ggaacctaaa gctaaaaagc caagaagggg aanccattga 60
ccgcancctg ccntgcagag aatngcagga tcccgatctg catgattcag aaaggcatga 120
caagagaaga ctcaccgtaa atcaaggntn aaagaaaaga agngaangtc tcgcactgtc 180
aaaccagtgg tggtagaaga acggcggacc cgggtggtaa actcncaaat gctagaatta 240
tctctnaaga tgtcctcgaa gctgttngcc acggaaaaan cgatagtn 288
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<210> 4222

<211> 149

<212> DNA

<213> Homo sapiens

<220>

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<220>

3855

<222> (36)
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<220>
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<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<400> 4223
catacagaca actctataag actaccngag gaccnctac anattcanca tgacaagcga 60
taaggatcac tataactgtc ccacaangag tacagtctat aacatagctg ga 112

<210> 4224
<211> 200
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (18)
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<220>
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<222> (28)
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<220>
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<222> (38)
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<220>
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3856

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<222> (133)
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<222> (158)
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<220>
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<222> (175)
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<220>
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<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (189)
<223> n equals a,t,g, or c

<400> 4224
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gtgncgcggg ataaccctgt gtggaattgt gactggtatt tcagaagaag agaattggcaa 120
gatgagaagc tgnataagga gatgggtaga tcataggnac caatgcataa catanatnga 180
agatataang aagggaaaaa 200

<210> 4225
<211> 102
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)
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<220>
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<222> (60)
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3857

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<222> (87)

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<220>

<221> misc feature

<222> (98)

<223> n equals a,t,g, or c

<400> 4225

aactcgctac cttcggagct tttaaccttt tgnctcggct caaccatccc gagattnggn 60
gataatggaa cgcacacaca cacaagnccc catcgcancc ac 102

<210> 4226

<211> 135

<212> DNA

<213> Homo sapiens

<220>

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<222> (23)

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<220>

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<222> (44)

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<222> (46)

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<222> (85)

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<222> (86)

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<220>

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3858

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ttccaccatc gcatccccgg acccnnctgc atatcgatgc tngacatcgg ggaggggagta 120
agctaccact gtctt 135

<210> 4227

<211> 180

<212> DNA

<213> Homo sapiens

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<222> (74)

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<220>

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<222> (87)

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<220>

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<222> (103)

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<220>

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<222> (158)

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<220>

<221> misc feature

3859

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ggtttggtat gtgnaaccca aggtatncga ttattgaaca gcnatatgat aggaatcttt 120
tcatacagca gtcttgggat gtataanctg aactgggnca tggcgagata nttgccaaag 180

<210> 4228

<211> 212

<212> DNA

<213> Homo sapiens

<220>

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<220>

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3860

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<220>

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cacacacaag gtggacaaga gagtcaccaa atttgtacaa aactcacaca tnccacgtgc 120
agncaactgac tctgcgggga cgcagcttct cttcccaaaa ccaaggacac ctcatgaatc 180
tcctnaccct nacgtacatn ctcgtgntgg ac 212
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<210> 4229

<211> 145

<212> DNA

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<220>

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<220>

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<222> (98)

3861

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<222> (131)

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<220>

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<222> (132)

<223> n equals a,t,g, or c

<400> 4229

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gctagcaagt atgctgggca tgcccnctga agccccngt gacgaggata ccataaatct 120
cttgtggaan nnagaccaga cgaca 145

<210> 4230

<211> 309

<212> DNA

<213> Homo sapiens

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<220>

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<220>

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<220>

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3862

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catgaaggag atggaacnca gatgtgcgca ttgcaccagg ctcaacaaag ctgctggcca 120
aaggaataag gatgtccata ccgaatccgt gtgccggctg ccagaaacgt aatgaggatg 180
aagatcacca gataagctaa tacttggnac ctatgacctg taccactttc naaatctaca 240
gacagcaatg tgatgaaaca aatcgctgtc gtanatcaaa taaagtataa atcgcttcaa 300
anngaanat 309

<210> 4231
<211> 115
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (36)
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<220>
<221> misc feature

3863

<222> (48)

<223> n equals a,t,g, or c

<220>

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<222> (50)

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<222> (81)

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<400> 4231

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cttcctaggn acaccctagg ntaccctctg ctcttcctcct gctgtgtggg gagat 115

<210> 4232

<211> 253

<212> DNA

<213> Homo sapiens

<220>

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<220>

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3864

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<220>
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<220>
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cagcaccacc tgtggcagga cgcagcttct cccccccaaa cccaaggcac cctatgatct 120
ccggaccctg aggcacgtgc gtggnggtga cgtgaccacg aagacccgan gtccagttca 180
acctggaccg tggacngcat ggangtgnca taatgcnaga caagccacgg aggagcagtc 240
aacagcacgt ccg 253

<210> 4233
<211> 102
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (59)

3865

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<220>

<221> misc feature

<222> (67)

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<220>

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<222> (69)

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<220>

<221> misc feature

<222> (78)

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<400> 4233

gaagtncatc gcttaacctg cgtggaattt tgcgaccttg tatgcaggga aacagggcnc 60

ctgaagnrna ctcttctnag atatcaacta ttgatgatat cc 102

<210> 4234

<211> 231

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (28)

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<222> (29)

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3866

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<220>
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<222> (224)
<223> n equals a,t,g, or c

<220>
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<222> (225)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (229)
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ttccccgtaa ttntcnaagg aaaatgatac aagactaatt acatactgat taaaaagcaa 120
nctagaaaact tcttacatat ctctatttaa catttgnaaa gaaacaaatt gtcaggggct 180
ctgcagacaa catnatatct cttaatcatg caaattaaat gatnnatana a 231

<210> 4235
<211> 202
<212> DNA
<213> Homo sapiens

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<220>
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3867

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<222> (44)
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<220>
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<222> (66)
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<222> (69)
<223> n equals a,t,g, or c

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<222> (140)
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<220>
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<222> (145)
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<220>
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<222> (156)
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<220>
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<222> (164)
<223> n equals a,t,g, or c

<220>
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<222> (185)
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gacagnatng ctgttcacag actggttatc ttctcaggaa agaacaaaaa gtacaacagg 120
ctcttctaga aagtctggan tctgnctgga gatagncagg gagnaccagt gtagtgaagg 180
agaanctaca tcttaagaag tg 202

<210> 4236
<211> 103
<212> DNA
<213> Homo sapiens

3868

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<222> (73)
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<220>
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<222> (75)
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<400> 4236
ttatacatgc attgtgagaa aatgtgatgn ggcaagagtg agtaataatg anccctacaa 60
accncagcag aantngcatc ttatctttag aaaaaaaga taa 103

<210> 4237
<211> 390
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
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<220>
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3869

<222> (103)
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<220>
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<220>
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<220>
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3870

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<220>

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<222> (356)

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<222> (357)

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<222> (385)

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<400> 4237

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taccgcatat aagataagct gaaacgctgc tggagtgtgt gcngtgccac ctttgccgct 120
tcgggctnan caggtgcaag tggactgcac cttctgcagc tctactgtgg cgtttggtggc 180
ncgaagaact cgtnacttnt gtgacgaagt ggtggctctg tgcctgnctg ccagncctgt 240
nccatggacc cagtgtggtg aggcattctgc agcgcgntag gccagcgtg catgaccgtc 300
tgncctgacc catggaccca gatctgtctc ggtggccttc cctcatgcag gtgcannccg 360
gctaataaca tgtgtggctc caanntaaaa 390
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<210> 4238

<211> 122

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (72)

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<220>

<221> misc feature

<222> (82)

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3871

<400> 4238

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ttcccgggtc tnccacgct tncgctaaag agttgctgct tttttcataa aaaaaaaaaa 120
aa 122

<210> 4239

<211> 349

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (47)

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<220>

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<222> (109)

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<220>

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<222> (270)

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<222> (288)

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<220>

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<222> (316)

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<220>

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<222> (319)

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<220>

<221> misc feature

<222> (321)

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<400> 4239

3872

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gttccttttag tctctgctct tgtgctcctc tgggggaatg tcttatacng ttttaaagga 120
ctctgtggtc aagaaagttt gggaaacact gttccaaatg tctgcaagcc ccatagacct 180
attcaactcc atgacagctt ctattgatag gctctatcct cactgtaaaa attttcaatg 240
tatgctctga tggtcactgg taaagaatgn tacggaacca gcttggtntt ctggaaactg 300
gtaaataaca ggaacnatna ngcattaatt ctgctattgg tcactaata 349
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<210> 4240

<211> 300

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

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<222> (107)

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<222> (165)

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<222> (250)

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<220>

<221> misc feature

<222> (276)

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<220>

<221> misc feature

<222> (287)

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3873

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<222> (288)
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<220>
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<222> (290)
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<400> 4240
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ccgcgctgag ccgcggagga ggggcnagagg acgcccctgc agccggngcg tctgccctca 120
gtgaggcggg gcgcgcggcg gacgcccccg ggcagggggcg ggagnggtgg aggcgcgggc 180
ggatggcact gacagggggcg gtgagcgagc cgctccggtc tccgggagcg gcttggcctt 240
cctagcagan acgccgtcta ccgcaggacg ttccancgag ggaaaannan tcggatcgta 300

<210> 4241
<211> 131
<212> DNA
<213> Homo sapiens

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<220>
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<222> (13)
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<220>
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<222> (22)
<223> n equals a,t,g, or c

<220>
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<222> (66)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (99)

3874

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<220>

<221> misc feature

<222> (126)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (127)

<223> n equals a,t,g, or c

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gaaagngatn atacatgtat ttgaacactt gatggttcna acagtcttaa atgtaatgct 120
tgggggnaag c 131

<210> 4242

<211> 146

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

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<222> (4)

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<222> (91)

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<222> (121)

<223> n equals a,t,g, or c

3875

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<222> (132)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c

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cncngggaac gccccctata gggtnagggtg gaacgcccgc aggtaccggt ccggaatttc 60
cgggtcgacc caccgctccg gcgtgatnca nggtctgggg accacagtgc tgatggaggg 120
ngaggctacc tnaagaaagn gagatg 146

<210> 4243
<211> 300
<212> DNA
<213> Homo sapiens

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<220>
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<222> (6)
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<220>
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<222> (15)
<223> n equals a,t,g, or c

<220>
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<222> (49)
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<222> (77)
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<220>
<221> misc feature
<222> (109)
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3876

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<222> (273)
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<220>
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<222> (287)
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<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
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<222> (296)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c

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cacgcgtccg gggctcntcg ggaccagatc cgcgagcccg tcagcctgng ccatgggctg 120
cgacggccgc gtgtcggggc tgctccgccg caacctgcag cccacgctca cctactggag 180
cgtcttcttc agcttcggcc tgtgcatcgc ctctctgggg cccacgctgc tggacctgcg 240
ctgtcagacg cacagctcgc tgccccagat ctncctgggtc ttcttcncgc agnagntntg 300

<210> 4244
<211> 318
<212> DNA
<213> Homo sapiens

<220>
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<222> (28)
<223> n equals a,t,g, or c

<220>
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<222> (49)
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3877

<220>

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<222> (74)

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<222> (214)

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<220>

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<220>

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gctgggtttct gccntnatcc tttaacacag catcttctcc cagaggcctg aggatgggaa 120
aaagtgatgg agaaaagggg aaccctaag gtcaccctc agccaggggg aactgtttaa 180
caggggtttg tctctgccct tttagacctt tggntttcta cctggctcag gcaccaggt 240
ttatgttttc tagatcaaaa ctctgcatgg nctccctgag aagactggga gaagaantt 300
nccntcagga ntgggatt 318

<210> 4245

<211> 206

3878

<212> DNA

<213> Homo sapiens

<220>

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3879

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ctgctgntca gcnnacagcct gaccnntcc catnctctgg nctctgacc tttnttcaca 120
ngggacctac ccctattgcg gtcttcacgc tcatntttna cctgaccctt cttcttctnc 180
ttggctttaa ttatgctaata gttgga 206
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<210> 4246

<211> 137

<212> DNA

<213> Homo sapiens

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<222> (76)

3880

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<222> (113)

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<222> (126)

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<400> 4246

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cctnttngaa agccccgggc cggatttggc gggtcgaccc acgctgtccg gnganccttt 60
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ccctgncaat aaggag                                     137
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<211> 108

<212> DNA

<213> Homo sapiens

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taatcngggc tcacctggac ttaagcagnc tggctggaat ccacagtg          108
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3881

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<211> 164

<212> DNA

<213> Homo sapiens

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<220>

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<222> (162)

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<400> 4248

3882

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tccggaattc ccgggtcgac ccacgcgtcc ggtactctnt taaaattcct gtgtaaactg 120
ggactttgcn gttcacnttc ttgtgtttca agaacagtan cncg 164

<210> 4249

<211> 196

<212> DNA

<213> Homo sapiens

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<220>

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<220>

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<222> (133)

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<220>

<221> misc feature

3883

<222> (144)
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<220>
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gtctatctgc tgatgagcta agaatttgca agacagtaca gctgcagcag ncatcactaa 120
gcagaacttc tnnagccaca catnaccaca gaatctcact ggncattgtg ctatgctctg 180
ccaatggcat gctgaa 196

<210> 4250
<211> 259
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<220>
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3884

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<220>
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<220>
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<222> (247)
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<220>
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tctttccacc gtgtgctggg aaaaggcatc ggagacctgg catcgcaaag ctctctttga 120
ngaaagatga tctcgatnca tcccagactg angcctcatc aagaagggga agattcgtga 180
aaccttgaag tgacctgtgn ctggtggcna gttcctaatt atgaaaggat atgcactgaa 240
agccgtncng ataacttga 259

<210> 4251
<211> 187
<212> DNA
<213> Homo sapiens

<220>
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<220>

3885

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<220>
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<220>
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<220>
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<220>
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<222> (163)
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atgtcatata atatgcagat gacataagac tattttctaa acatcctcca ttttccacag 120
agtgtgatgt canncctcag tgnctatntg gacttagatg ggntcactct tctctggaat 180
gatgaga 187

<210> 4252

3886

<211> 134
<212> DNA
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tactntggtn cgcttgggac aactagaaac ttaaacagca aatggccaag tnaacanaca 120
ttgtgcatan gctg 134

<210> 4253
<211> 115

3887

<212> DNA

<213> Homo sapiens

<220>

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gcaacatgtg tcgccaggna gganctgtac cttctgttcg anacnaatgc ggctg 115

<210> 4254

<211> 104

<212> DNA

<213> Homo sapiens

<220>

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3888

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<222> (39)
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<222> (48)
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<220>
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<222> (84)
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gagctgtcat tgagccntca tcantcgcta ctggagaaca tatg 104

<210> 4255
<211> 242
<212> DNA
<213> Homo sapiens

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3889

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<220>
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<222> (218)
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<220>
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<222> (237)
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<220>
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<222> (241)
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ttgaactacta acgagatatt gcagcccttg acggagaata gagcacatag aagctcgggtg 120
acnaaagggtg agacactcac ctagaacagt gccgtgctgt gctgngaagg tgcttacaca 180
cacaggccac atgggaaagg cccagcagcc ntaagctnct acttctccat aaagagnaca 240
ng 242

<210> 4256
<211> 235
<212> DNA
<213> Homo sapiens

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<220>
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3890

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<220>
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tacacttctc tgctctangg ctcagancac atacgacgga tagcaccaca acctgctncg 120
gacgtcgatt gagctaagca tnggtgctgt cgtatccgtc tntgccgaag actgtgacgt 180
gaaatgaatn tggcagtctc tcaactcgat tcccanagcc gngactgatt gactg 235

3891

<210> 4257
<211> 266
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<220>

3892

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ncagtngaaa tgggagacta gnctcagctc ctatacgcac cctggagagc ggctcatctc 120
tgatgtctag cagacctcct natagaatgg aacaactatt ggatgggtacc tgagaaccag 180
gcagttctcac agntcctgat cattgggtcta atccngnctc cgggtcctgc aggtcantgc 240
agtgggtatg cacanactta cactga 266

<210> 4258
<211> 101
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c

<400> 4258
ggggaaggna cccggggacca gttgggnaaa agggccccc tttnggggaa aaacggggccc 60
ccgtaagaag ggaaggatnn ggagagcggc gacgaaaccg g 101

<210> 4259

3893

<211> 105

<212> DNA

<213> Homo sapiens

<220>

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<222> (14)

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<220>

<221> misc feature

<222> (26)

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<220>

<221> misc feature

<222> (83)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (87)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (91)

<223> n equals a,t,g, or c

<400> 4259

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ttttctgttaa accaacctcc atngacncga naaatcattt cttaa 105

<210> 4260

<211> 101

<212> DNA

<213> Homo sapiens

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<222> (20)

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<221> misc feature

<222> (58)

3894

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<222> (69)

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<400> 4260

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agatgaaanc attcctctgt actctttaat nccatccttg a 101

<210> 4261

<211> 314

<212> DNA

<213> Homo sapiens

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<222> (58)

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<222> (94)

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<222> (115)

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<222> (117)

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<222> (124)

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3895

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<220>
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<220>
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<220>
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<220>
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<222> (307)
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<220>
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<222> (310)
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tctgccatct actgaacttaa ttttcaattc tgenactcca tcttcaaacc cctnancctt 120
tccnacccta ctctgcnat gcattgaagg gtcaatgcat ttnggggtga gctctgggtt 180
tagggggccc ntccatccct nagctaccct ggatctttgc ccacctnttc ctcagagccc 240
ccactgaggg gccgtagcct atctaggggt ntggnaggag cagattggtt cctaactgtt 300

3896

ttccctngtn ttg

314

<210> 4262

<211> 372

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<220>

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<222> (90)

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<220>

<221> misc feature

<222> (92)

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<220>

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<220>

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<222> (158)

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<220>

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<222> (202)

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<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

3897

<220>

<221> misc feature

<222> (297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (328)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (360)

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<220>

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<222> (371)

<223> n equals a,t,g, or c

<400> 4262

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cactctgtan gcccatgggt cccttactan anangttgag tgaatttgcc ttcagttaac 120
atgggacctt ctgttttagct tctctttgct tcccaaanat tttaancatt ttgtaaatgt 180
ataaactcac ctctggtaac antggcccan acctgctttg tgctaaaaac atgggaaatt 240
ttaagcagtc tttctcttgg aaatggatgc tattctattc tgctgcccct acttttnccg 300
aaggcctctt ttaaaaaaaaa aatcccnca aaaggtttct ggcacccatt ttcttanccn 360
ggccaatttt nt 372
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<210> 4263

<211> 559

<212> DNA

<213> Homo sapiens

<400> 4263

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ggacagagggc tgttccctat ggcagaagggc aaccacagaa aaaagccact taaggtgttg 60
gaatccctgg gcaaagattt cctcactggg gttttggata acttggtgga acaaaatgta 120
ctgaactgga aggaagagga aaaaaagaaa tattacgatg ctaaaactga agacaaagtt 180
cgggtcatgg cagactctat gcaagagaag caacgtatgg caggacaaat gcttcttcaa 240
acctttttta acatagacca aatatcccc aataaaaaag gtgataaatt gggtcacaga 300
ggcagaaatc acaatttatg ttctgcaata tctgcagct catccgaata tggaggctgg 360
accacctgag tcaggagaat ctacagatgc cctcaagctt tgcctcatg aagaattcct 420
gagactatgt aaagaaagag ctgaagagat ctatccaata aaggagagaa acaaccgcac 480
acggctggct ctcatcatat gcaatacaga gtttgaccat ctgcctccga ggaattgagc 540
tgactttgac atcacaggg 559
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3898

<210> 4264

<211> 541

<212> DNA

<213> Homo sapiens

<220>

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<222> (26)

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<220>

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<222> (28)

<223> n equals a,t,g, or c

<220>

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<222> (30)

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<220>

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<222> (31)

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<220>

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<222> (34)

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<220>

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<222> (78)

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<220>

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<222> (132)

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<222> (492)

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3899

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gggacttcaa gnaataagta cgaagatgaa attaaccgcc gcacagctgc tgagaatgag 180
tttgtggtgc tgaagaagga tgtggatgct gcctacatga gcaagtggag ctggaggcca 240
aggtggatgc cctgaatgat gagatcaact tcctcaggac cctcaatgag acggagttag 300
cagagctgca gtcccagatc tccgacacat ctgtggtgct gtccatggac aacagtcgct 360
ccctggacct ggacggcatc atcgctgagg tcaaggcaca gtatgaggag atggccaaat 420
gcagccgggc tgaggctgaa gcctggtacc agaccaagtt tgagaccctc caggcccagg 480
ctgggaagca tngggacgac ctccggaata cccggaatga gatttcagag atgaaccggg 540
c 541

<210> 4265

<211> 455

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (128)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (141)

<223> n equals a,t,g, or c

3900

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<221> misc feature
<222> (155)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c

<220>
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<222> (170)
<223> n equals a,t,g, or c

<220>
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<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (186)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (213)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (214)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

3901

<220>
<221> misc feature
<222> (249)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (418)
<223> n equals a,t,g, or c

<220>

3902

<221> misc feature
 <222> (426)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (440)
 <223> n equals a,t,g, or c

<400> 4265
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 ctggagctcc accgcggtgg cggccgctct agaactagt gatcccccg gctgcaagga 120
 aattcggnac aattcccagg ncacagcaaa ggtcngtnaa accccccccn ccatccccag 180
 ttatnngggt cccnggaat cctcctgttc cttnaatcag gctcngtttn cccctagcc 240
 actacgggna gnetctgaga gtgccgcttt acttgcatc tgcaacaatt acntgtntcc 300
 ttnagatcct ngggccaant tccctccctc tccagctcc tggcccctgg ggccagggcc 360
 cctcttgctg tttttacctc tgtnccttgg ggccactac ccaagnaagc acccgaangg 420
 ggggangttt tggggattan aagaggaaac cttct 455

<210> 4266
 <211> 271
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (7)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (10)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (47)
 <223> n equals a,t,g, or c

<400> 4266
 ccgccanccn cactaaaggg aacaaaagct ggagctccac cgcggtngcg gccgctctag 60
 aactagtga tccccgggc tgcaggaatt cggcacgagt gccatttta tcaaagttgt 120
 aatttttaaa aagtcaccta aaactctggt tttaaaagat cctctgtatt gaaaacttct 180
 gataatgtat gtcattatgt ccttactatt ccttaattgt agttttaaaa tattggtata 240
 gtacttgaca gagtaaatac ttcactctgat t 271

<210> 4267
 <211> 355
 <212> DNA
 <213> Homo sapiens

3903

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<400> 4267
gtcccaaagt gctgcgattn taggtaatga aagtatggga tgctcatgtg acagcagttt 60
gctcccaaga tgccagtga cttgtcngga agcttggtgc agacgatgta attgattaca 120
aatctggaag tgtggaagag cagttgaaat ccttaaaacc atttgatttt atccttgata 180
atgttggcgg atccactgaa acatgggctc cagattttct caanaaatgg tcaggagcca 240
cctatgtgac tttggtgact cctttcctcc tgaacatgga ccgatagggc atagcagatg 300
gcatgttgca nacaggagtc actgtagttc aaangcatta aagcatntct ggann 355

<210> 4268
<211> 338
<212> DNA

3904

<213> Homo sapiens

<220>

<221> misc feature

<222> (76)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (330)

<223> n equals a,t,g, or c

<400> 4268

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gccgtcatct actctacccat ctttgcaggc acatctcatca cagcgctaag ctgcgactga 60
tttttttacct gagtangecc anaaataaac atgctagctt ttattccagt tctaaccaaa 120
aaaataaacc ctggttccac agaagctgcc atcaagtatt tcctcacgca agcaaccgca 180
tccataatcc ttctaatagc tatcctcttc aacaatatac tctccggaca atgaaccata 240
accaatacta ccaaataaat actcatcatt nataatcata atggctattn caataaaact 300
aaggaatagc ccctttcatt ctgaatcccn aaagttac 338
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<210> 4269

<211> 479

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (187)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

3905

<221> misc feature
<222> (226)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (227)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (249)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (404)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3906

<222> (410)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (426)

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<220>

<221> misc feature

<222> (461)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (479)

<223> n equals a,t,g, or c

<400> 4269

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gaagctatcg ggcccatacc ccgaaaatgt tggttataacc cttcccgtac taattaatcc 60
cctggcccaa cccgtcatct actctaccat ctttgcaggc acactcatca cagcggctaa 120
gctcgcaactg attttttacc tgagtaggcc tagtaaataa acatgctagc ttttattcca 180
gttctancca aaaaaataaa ccctcgttcn acagaagctg ccacnngtt atttcctcac 240
gcaagcaanc gcatccanna tccttctaata ggctatcctc ttcaacaata tactctccgg 300
aacaatgaaa ccataaccaa tacnaccnat caatactcat cattggataa gcatnatggn 360
tattggcaat taaaactagg aatagccccc ctttcacttc tgantccan aagggttacc 420
caaggnaacc cctgaaatcg ggctgcttct tctcacatga naaaaataac cccgctcan 479
```

<210> 4270

<211> 376

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (359)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (374)

3907

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<400> 4270

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cccacgcgtc cggacccacg cgtccgatca acaccctcct agccttacta ctaataatta 60
ttacatthttg actaccacaa ctcaacggct acatagaaaa atccaccctt tacgagtgcg 120
gcttcgaccc tatatcccc gcccgcgctc ctttctccat aaaattcttc ttagtagcta 180
ttaccttctt attatthgat ctagaaattg cctctctttt acccctacca tgagccctac 240
aaacaactaa cctgccacta atagttatgt catcctctt attaatcatc atcctagccc 300
taagtctggc ctatgagtga ctacaaaaag gattagactg aaccggataa aaaaagaana 360
agagangaag ananan                                     376

```

<210> 4271

<211> 542

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (482)

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<220>

<221> misc feature

<222> (527)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<400> 4271

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gagtaaacat tgctcaccag atctctctac gttcagaagc attttttcat gcaatgacct 60
ctcaacacga gttgcaggac tacctcagga aaacttccca ggctgtaaaa atgcttcgag 120
ataaaattgc acagattgat aaagtaatgt gtgaaggatc actccacatt ttaagactgg 180
cacttaccag aaataattgt gttaaagtat acaataagct gaagttaatg gccactgtac 240
accagactca gcctacagta cagggtgtat tatctacttc tgaatttggt ggagcattgg 300
acttaatagc aacaacacaa gaggttctac agcaggaact tcagggcatt cacagtttcc 360
ggcatttggg atcacagctt tgtgaattag aaaaactgat agataaaatg atgattgcag 420
aattttctac ttattctcac agtgacttaa atagaccact ggaagatgac tgtcaagttt 480
anaaaagagga aagactaata tctcttggat ttggctttaa aaccaanaaa gcttantttt 540
aa                                                    542

```

<210> 4272

<211> 611

<212> DNA

3908

<213> Homo sapiens

<220>

<221> misc feature

<222> (340)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (460)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (530)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (534)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (579)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (582)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (587)

<223> n equals a,t,g, or c

<400> 4272

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cagcaacgct cactttgcca agctgcgga cttcatcact ctgcgccttc cacctggctt 120
ccccgtcaaa attgagattc cccttttcca cgtgctcaat gcccgcatca ccttcagcaa 180
cctgtgtggc tgtgatgagc ccctgagctc cgtgtgggtg ccggccccc gctctgctgt 240
cgccgcatca gggaaccctt tcccgtgcga ggtggacccc accgtgtttg aagtgcceaa 300
cgggtacagc gtgctgggca tggagcgcaa cgagccctn cgggacgagg acgatgacct 360
cctgcagttc gccatccagc agagcctgct tgaagcgggc actgaggcgg agcaggtggg 420
acttgcccag ggggtgggct ctggcctctg cagacacacn gcagaagtna cagctgtggg 480

3909

ctctggtggc tgcaggtgac cgtctgggaa ggccttgacc aacacccggn cegntgcccg 540
gccttcttcc caggccacgg ttatgagga acagcttang cntggancgg ggccttcag 600
gaaaagccct g 611

<210> 4273
<211> 352
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (116)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (159)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (177)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3910

<222> (190)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (191)

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<220>

<221> misc feature

<222> (205)

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<220>

<221> misc feature

<222> (235)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (268)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (307)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (324)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (333)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (345)

<223> n equals a,t,g, or c

<400> 4273

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tattggtggc atcacagctc ccacagtaag acagtactac gcttanctca ccgncacaca 60
gtgcaagccc gtagnaacac aatgctgggt gtttggggtc attggtttcc tgggnngtcc 120
attgtttgca taaaatttgg acaagatctc ntgtctaana cccaaatact ctatgtngtg 180
ctttggcttn nttgcgtggc tttgnaccac tttcctctgt tcttttacgg catgntttgg 240
tatgcagaac actatgggtg cactgggnaa aagacctgac ttcggaagtg tgaaagatgg 300
gcacctnttg gttcccagtg gatncttcct ggncatcctt aggtnaaggg ga 352
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3911

<210> 4274
<211> 407
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<400> 4274
cagaaaaatat gcctcataca acatgagaga tgatcatcac gaaagactcc ctttgtatgt 60
accgagtgcg gaaaatccta ttcacacaaa tatggcctca ttacccatca gagaattcac 120
acaggagaga aaccttatga gtgcaatgaa tgtggaaaag ccttcaccac aaagtcagta 180
ctcaatgtac atcaaagaac gcatacagga gagaggccgt atggatgcag tgattgtgag 240
aaagccttct cccacttatc aaaccttgct aaacataaga aaatgcacac aagaganatg 300
ggtagaatca gtcaagttga aaactcctgt aatngagagt cacagctcct tccttataag 360
tgaactcatg cagaagaaaa ccctactagt gccgtgacta tggaaaa 407

<210> 4275
<211> 538
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<400> 4275
gntcgaaant aaccctcact aaagggaaca aaagctggag ctccaccgcg gtgncggccg 60

3912

ctctagaact agtggatccc ccgggctgca ggaattcggc acgaggtaag tggcgcgatt 120
cgggcagncc ccgatggaac ctcttggtcc tgtgagggtta cacagggaca agagaagatg 180
atgatgatgg gaccaaagga agaggaacag tcttgtgagt atgagaccag gctacctggg 240
aaccactcta ccagtcaaga gatcttccgc caacgcttca ggcattctccg ctaccaggag 300
actcctggtc cccgggaggc cttgagccaa ctacgagtac tctgctgtga gtggctgagg 360
ccagagaaac acacgaagga gcagatcctg gaggttcctg tgctggaaca attcttgacc 420
atcctgcctg aggagctcca atcctgggtg cggggacatc accctaagag tggagaggag 480
gctgtgactg tgctggagga tttagagaaa ggacttgaac cagagccgca gtcccagg 538

<210> 4276

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (231)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (282)

<223> n equals a,t,g, or c

<400> 4276

gcaggggaaa aaccctatgt gtgtgatagg tgtgggaagg ccttcaggaa acagctcang 60
cctcacagtg cataaaaagga tccacacagg tgaaacccca ctatgaatgt gatgagtgtg 120
ggaaggcata catctcacac tcaagtctta ttcaatcata aaagtgtcca ccaggggaaa 180
gcagccctat tattgttgaa ttgttgggaa atccttccaa ttatgaatca ntcccttgaa 240
ccagcacaaa agggatcccc cnctgggaaa naaancctc cnaattttaa gaagtttggg 300

3913

<210> 4277
<211> 405
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<220>
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<222> (377)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<400> 4277
gccagggcct gagggggagg tttcctgaga actccggccc caggctggcc tgagctgccg 60
ggcagaggcc tgtgctggca acaggcattg cggggcctgc agctcagagg gtcactggga 120
ctgagggcga tctgtggcct gaaaagcaaa tgcacagtta gtgcagctcc tgaccaggcc 180
ttcaggggtg acagaggag gatcggtcat ggcagccaca cctgggcctg gccttgctcc 240
gggacctgcc agaggagctg gcctggctct gtgcctgcct gcctccagga gcaggacggt 300
ggctgggagg gtagtgactg gggacacagg tgcangtgtt agtgcangac cggaagggtg 360
aggtagcctg gtcctcnggg ctncctggcct gggctggctg angca 405

<210> 4278
<211> 108
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

3914

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4278

Asn Lys Lys Lys Asp Asn His Leu Leu Xaa Pro Val Gln Glu Asn Ala

1

5

10

15

Asn Ser Gly Tyr Tyr Glu Ala His Pro Val Thr Asn Gly Ile Glu Glu

20

25

30

Pro Leu Glu Glu Ser Ser His Glu Pro Glu Pro Glu Pro Glu Ser Glu

35

40

45

Thr Lys Thr Glu Glu Leu Lys Pro Gln Val Glu Glu Lys Asn Leu Glu

50

55

60

Glu Leu Glu Glu Lys Ser Thr Thr Pro Pro Pro Ala Glu Pro Val Ser

65

70

75

80

Leu Pro Gln Glu Pro Pro Lys Pro Arg Val Xaa Ala Lys Pro Glu Val

85

90

95

Gln Ser Gln Pro Pro Arg Val Arg Gly Thr Thr Thr

100

105

<210> 4279

<211> 59

<212> PRT

<213> Homo sapiens

<400> 4279

Gly Phe Pro Val Leu Phe His Ser Ala Phe Met Ser Gln Leu Pro Leu

1

5

10

15

Ile Pro Ser Lys Leu Ser Gln Val Glu Trp Pro Asn Pro Gly Met Met

20

25

30

Tyr Tyr Phe Leu Gln Ser Cys Asp Cys Leu Gly Gly Pro Phe Ala Asn

35

40

45

Phe Pro Arg Ala His Val Cys Leu Val Val Lys

50

55

<210> 4280

<211> 147

<212> PRT

<213> Homo sapiens

3915

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4280

Arg Glu Phe Asp Gly Lys Pro Gly Leu Ala Gly Leu Ala Thr Pro Pro
 1 5 10 15

Pro Pro Pro Pro His Gln Arg His Leu His Leu His Cys Pro Ala Lys
 20 25 30

Leu Arg Leu Leu Pro Leu Gln Arg Gln Leu Ala Ser Arg His Arg Trp
 35 40 45

Thr Pro Gly Ser Xaa Ser Asp Val Ala Arg Leu Ser Gly Lys Ser Val
 50 55 60

Leu Pro Leu Pro Ile Ser Met Pro Ser Pro Ser Val Ser Pro Glu Ser
 65 70 75 80

Ala Val Tyr Leu Ile Gly Pro Val Met Leu Thr Phe Xaa Ala Thr Ala
 85 90 95

Phe Ser Ser Lys Glu Phe Ser Ser His His Gly Val Ser Gly Pro Leu
 100 105 110

Ala Ser Trp Ser Lys Val Gly Leu Gly Gly Arg Tyr Gly Ser Gly Met
 115 120 125

Cys Tyr Arg Ser Tyr Gln Xaa Trp Gly Pro Leu Ser Val Ser Gly Ser
 130 135 140

Glu Arg Val
 145

<210> 4281

<211> 53

3916

<212> PRT

<213> Homo sapiens

<400> 4281

```

Pro Leu Trp Lys Thr Val Tyr Lys Thr Lys His Thr Val Phe Asn Ser
 1             5             10             15

Ile Gly Ser Ile Ile Ile Val Tyr Tyr Arg Xaa Pro Leu Trp Lys Thr
          20             25             30

Val Tyr Lys Thr Lys His Thr Val Phe Asn Ser Ile Gly Ser Ile Ile
          35             40             45

Ile Val Tyr Tyr Arg
          50

```

<210> 4282

<211> 45

<212> PRT

<213> Homo sapiens

<400> 4282

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Ala Leu Ile Phe His Trp Gly Ser Ala Ile Thr Lys Asn Ser Ser Asp
 1             5             10             15

Ile Phe Gln Leu Pro Lys Trp Pro Gly Thr Phe Cys Phe Tyr Glu Asn
          20             25             30

Arg Phe Ile Leu Tyr Phe Pro Val Cys Leu Leu Cys Leu
          35             40             45

```

<210> 4283

<211> 58

<212> PRT

<213> Homo sapiens

<400> 4283

```

Ile Ala Ser Gly Arg Pro Phe Phe Phe Leu Ile Tyr Met Asn Leu Gln
 1             5             10             15

Ile Ile Tyr Ile Asn Leu Leu Leu Cys Gly Asp Phe Gly Gln Glu Asp
          20             25             30

Cys Leu Arg Pro Gly Ile Gln Asp Gln Pro Gly Lys Gln Ser Glu Thr
          35             40             45

Leu Ser Leu Gln Lys Ile Lys Thr Lys Ile

```


3917

50

55

<210> 4284

<211> 65

<212> PRT

<213> Homo sapiens

<400> 4284

Val Phe Gln His Ser His Cys Thr Ser Ala Gly Asn Leu Ser Ile Leu
 1 5 10 15

Tyr Arg Gln Ser Glu Leu Lys Ser Leu Met Ser Arg Asp Tyr Gly Leu
 20 25 30

Asn Lys Leu Val Cys Pro Ile Gly Gly Lys Lys Pro Arg Asn His Leu
 35 40 45

Leu Lys Arg Met Ile Cys His Ile Pro Leu Asp Phe His Phe Ala Leu
 50 55 60

Tyr
 65

<210> 4285

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4285

His Arg Ile His Phe Thr Tyr Leu Thr Ser Thr Ile Ser Ser Asp Thr
 1 5 10 15

Phe Ser Met Lys Gln Thr Ile Ala Ile Phe Lys Ile Met Asn Leu Ser
 20 25 30

Ile Ile Leu Pro Asn Ser Phe Xaa His Leu Cys Asn Phe Ser Leu Phe
 35 40 45

Leu Leu Pro Leu Pro Val Pro Ser Gln Pro Leu Ile Cys Ser Gly Asn
 50 55 60

Tyr Gln Ser Ser Phe Cys His Tyr Arg Leu Ile Cys Ile Phe Lys Glu

3918

65 70 75 80
 Ile Tyr Ile His Gly Thr Ile His His Leu Cys Phe Val Val
 85 90

 <210> 4286
 <211> 62
 <212> PRT
 <213> Homo sapiens

 <400> 4286
 Ala Glu Val Leu Leu Glu Ala Ile Arg Lys Gly Ile Gln Leu Arg Lys
 1 5 10 15

 Val Glu Glu Gln Arg Glu Gln Glu Ala Lys His Glu Arg Ile Glu Asn
 20 25 30

 Asp Val Ala Thr Ile Leu Ser Arg Arg Ile Ala Val Glu Tyr Ser Asp
 35 40 45

 Ser Glu Asp Asp Ser Glu Phe Asp Glu Val Asp Trp Leu Glu
 50 55 60

<210> 4287
 <211> 29
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4287
 Cys Arg Leu Leu Arg Arg Thr Xaa Lys Leu Gly Phe Ser Gly Arg Met
 1 5 10 15

 Thr Xaa Leu Arg Asp Pro Leu Gln Ala Arg Thr Lys Phe
 20 25

3919

<210> 4288

<211> 129

<212> PRT

<213> Homo sapiens

<400> 4288

Phe Leu Lys Glu Gly Ser Thr Pro Val Ser Asn Val Tyr Val Ser Met
 1 5 10 15

Cys Val Cys Ala Ile His Met Tyr Ser His Glu Asp Arg His Gly Gln
 20 25 30

Val Leu Leu Glu Glu His Ser Ser Val Thr Ser Arg Ala Thr Gly Pro
 35 40 45

Cys Arg Ala Val Val Tyr Ile Val Gln Leu Trp Arg Trp Asn Ser Ile
 50 55 60

Phe Thr Leu Phe Tyr Gly Ala Phe Arg Val Pro Gly Phe His Leu Arg
 65 70 75 80

Leu Ser Val Trp Met Ala Val Phe Arg Pro Pro Leu Thr Ser Leu Pro
 85 90 95

Ser Ile Leu Tyr Phe Gly Gly Leu Leu Ser Cys Tyr Lys Thr Phe Tyr
 100 105 110

Gln Val Lys His Arg Tyr His Leu Cys Phe His Ser His Trp Cys Lys
 115 120 125

Tyr

<210> 4289

<211> 345

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (186)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

3920

<221> SITE

<222> (209)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (288)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (301)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4289

Glu	Ser	Asp	Gly	Met	Ala	Leu	Ile	Thr	Leu	Arg	Lys	Asn	Leu	Tyr	Arg
1				5					10					15	

Leu	Ser	Asp	Phe	Gln	Met	His	Arg	Ala	Leu	Ala	Ala	Leu	Lys	Asn	Lys
			20					25					30		

Pro	Leu	Asn	His	Val	His	Lys	Val	Val	Lys	Glu	Arg	Leu	Cys	Pro	Trp
		35					40						45		

Leu	Cys	Ser	Arg	Gln	Pro	Glu	Pro	Phe	Gly	Val	Arg	Phe	His	His	Ala
	50					55					60				

His	Cys	Lys	Lys	Phe	His	Ser	Lys	Asn	Gly	Asn	Asp	Leu	His	Pro	Leu
65					70					75					80

Gly	Gly	Pro	Val	Phe	Ser	Gln	Val	Ser	Asp	Cys	Asp	Arg	Leu	Glu	Gln
				85					90					95	

Asn	Val	Lys	Asn	Glu	Glu	Ser	Gln	Met	Phe	Tyr	Arg	Arg	Leu	Ser	Asn
			100					105					110		

Leu	Thr	Ser	Ser	Glu	Glu	Val	Leu	Ser	Phe	Ile	Ser	Thr	Met	Glu	Thr
		115					120					125			

Leu	Pro	Asp	Thr	Met	Ala	Ala	Gly	Ala	Leu	Gln	Arg	Ile	Cys	Glu	Val
	130						135				140				

Glu	Lys	Lys	Asp	Gly	Asp	Gln	Gly	Leu	Pro	Lys	Xaa	Ile	Leu	Glu	Asn
145					150					155				160	

Ser	Ile	Phe	Gln	Ala	Leu	Cys	Phe	Gln	Phe	Glu	Lys	Glu	Pro	Ser	Gln
			165						170					175	

Leu	Ser	Asn	Thr	Ser	Leu	Val	Thr	Ala	Xaa	Gln	Ala	Leu	Ile	Leu	Leu
			180					185					190		

3921

His Val Asp Pro Gln Ser Ser Leu Leu Leu Asn Leu Val Ala Glu Cys
 195 200 205

Xaa Asn Arg Leu Arg Lys Gly Gly Met Glu Val Arg Asn Leu Cys Ile
 210 215 220

Leu Gly Glu Ser Leu Ile Thr Leu His Ser Ser Gly Cys Val Thr Leu
 225 230 235 240

Glu Leu Ile Ile Asn Gln Leu Gln Gly Glu Lys Leu Glu Thr Phe Thr
 245 250 255

Pro Glu Asp Ile Val Ala Leu Tyr Arg Ile Leu Gln Ala Cys Thr Glu
 260 265 270

Lys Val Asp Glu His Gln Thr Phe Leu Asn Lys Ile Asn Asn Phe Xaa
 275 280 285

Leu Ser Ile Val Ser Asn Leu Ser Pro Lys Leu Ile Xaa Gln Met Leu
 290 295 300

Thr Ala Leu Val Val Leu Asp Gln Ser Gln Ala Phe Pro Leu Ile Ile
 305 310 315 320

Lys Leu Gly Lys Ile Cys Arg Glu Ala Cys Pro Thr Phe His Leu Thr
 325 330 335

Arg Ser Leu Gly Glu Ser Phe Glu Ala
 340 345

<210> 4290

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4290

Glu Ser Pro Phe His Thr Val Glu Arg Cys Arg Cys Gly Lys Pro Gln
 1 5 10 15

3922

Arg Trp Leu Pro Ile Leu Asn Pro Phe Ile Ser His Leu Ser Phe Phe
 20 25 30

Ser Pro Phe Cys Pro Asp Val Ala Met Val Gly Trp Val Arg Pro Glu
 35 40 45

Glu Thr Ala Ser Xaa Arg Gly Ser Ser Arg Ser Gly Gly Ser Ala Gly
 50 55 60

Ile Gly Ala His Arg Ser Glu Glu Trp Pro Met Xaa Leu Pro Ser Lys
 65 70 75 80

Cys Ala

<210> 4291

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4291

Leu Ser Ile Cys Ile Ile Asn Ile Ile Met Met Phe Phe Ser Cys Ser
 1 5 10 15

Phe Gln Gly Leu Ser His Leu Lys Lys Leu Leu Leu Thr Lys Leu Leu
 20 25 30

Thr Leu Phe Pro Leu Met Ile Gln Val Ser Val Pro Ala Leu Tyr Val
 35 40 45

Asn Tyr Gln Asn Ser Pro Ala Ser Glu His Asp Ile Tyr Asn Arg Arg
 50 55 60

Tyr Xaa Asn Lys Met Xaa Xaa Leu

3923

65

70

<210> 4292

<211> 40

<212> PRT

<213> Homo sapiens

<400> 4292

His Ile Asn Asn Ile Lys Met Ala Ile Pro Phe Tyr Gly Val Thr Leu
 1 5 10 15

Phe Leu Gly Ile Val Ser Lys Glu Ile Ile Leu Asn Ile Gly Lys Lys
 20 25 30

Tyr Phe Tyr Asn Leu Gln Ser Val
 35 40

<210> 4293

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4293

Ala Val Ala Leu Met Ala Pro Pro Ser Gly Met Ile Arg Val Thr Ala
 1 5 10 15

Xaa Arg Gly Ser Phe Glu Trp Arg Pro Ala Gly Gly Asp Pro Asn Arg
 20 25 30

Arg Ala Gly Arg Arg Pro Phe Ser Arg Glu Gly Pro Ile Trp Arg Lys
 35 40 45

Ser Ser Arg Leu Val Lys Leu Gly Gly Arg
 50 55

<210> 4294

<211> 39

<212> PRT

<213> Homo sapiens

3924

<400> 4294

Pro Tyr Arg Ser Ser Lys Asn Ser Met Pro Phe Arg Leu Ala His Tyr
 1 5 10 15

Gln Lys His His Glu Ser Ile Leu Lys Thr Asn Tyr Leu Leu Gln Cys
 20 25 30

Ile Ser Leu Val Leu Cys Val
 35

<210> 4295

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4295

Gly His Ile Phe Ser Leu Lys Ser Asp Ile Leu Ser Leu Leu Ser
 1 5 10 15

His Tyr Cys His Thr Phe Val Phe Phe Val Val Ile Val Trp Val Glu
 20 25 30

Gln Leu Gln Glu Thr Leu Lys Pro Leu Asp Ile Lys Glu Ile Cys Leu
 35 40 45

Leu Ile Phe Lys Ser Phe Leu Ser Lys Ser Trp Asp Thr His Gly Ser
 50 55 60

Cys Leu Gly Asn Phe Pro Cys Cys Tyr Arg Ala Ala Thr Lys Trp Glu
 65 70 75 80

Leu Thr Arg Arg Ala Val Tyr Thr Val Ser Leu Ala Thr Val Ala Xaa
 85 90 95

Gly Ser Gly Ile Trp Leu Thr Gly
 100

<210> 4296

<211> 74

<212> PRT

<213> Homo sapiens

3925

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4296

Glu Val Asp Leu Gly Val Ser Trp Arg Val Ser Leu Leu Val Ala Gly
1 5 10 15

Gly Arg Asp Ser Trp Leu Trp Gly Trp Arg Glu Val Val Gly Arg Lys
20 25 30

Arg Gly Cys Val Pro Ala Thr Arg Ile Cys Ile Pro Glu Pro Lys Pro
35 40 45

Gly Gly Ile Ser Leu Arg Gln His His Pro Arg Glu Ile Cys His Asn
50 55 60

Leu Arg Phe Thr Ala Xaa Asp Ala Glu Ala
65 70

<210> 4297

<211> 53

<212> PRT

<213> Homo sapiens

<400> 4297

Gln Val Gln Ala Ala Glu Gln Pro Lys Pro Leu Leu Cys Leu Trp Ser
1 5 10 15

Arg His Ser Leu Phe Leu Cys Phe Leu Asp Glu Leu Ala Phe Thr Leu
20 25 30

Leu Tyr Gly Leu Ala Pro Asn Ser Leu Leu Arg Glu Ile Gln Glu Pro
35 40 45

Ser Phe Gly Ser Ala
50

<210> 4298

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

3926

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4298

Ser	Asn	Val	Pro	Lys	Thr	Ser	Lys	Gln	Asn	Leu	Ile	Pro	Xaa	Lys	Tyr
1				5				10					15		

Ala	Leu	Phe	Leu	Leu	Ile	Cys	Phe	Val	Leu	Gln	Leu	Arg	Ser	Lys	Ser
			20					25					30		

Leu	Val	Lys	Leu	Tyr	Tyr	Leu	Pro	Lys	Tyr	Lys	Arg	Xaa	Leu	Glu	Leu
		35					40					45			

His	Cys	Asn	Ile	Asp	Val	Leu
	50					55

<210> 4299

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4299

Met	Gly	Gly	Leu	Ile	Ala	Leu	Ala	Arg	Glu	Ala	Ala	Gly	Lys	Glu	Asp
1				5				10					15		

Arg	Trp	His	Pro	Glu	Thr	Ala	Gln	Xaa	Trp	Asn	Arg	Thr	Pro	Xaa	Val
			20					25					30		

Gln	Gly	Leu	Lys	Phe	His	Gly	Leu	Val
		35					40	

<210> 4300

<211> 79

3927

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4300

Gln Ala Ala Ala Arg Gly His Pro His Pro Ala Phe Xaa Arg Gln Phe
1 5 10 15

Asp Arg Gly Glu Arg Gly Pro Ala Gly Leu Leu Leu Cys Trp Ala Trp
20 25 30

Gln Pro Pro Pro Glu Lys Met Glu Phe Arg Thr Ala Ser Ile Arg Leu
35 40 45

Phe Gly His Leu Thr Arg Ser Ala Thr Glu Thr Val Arg Thr Ser Ser
50 55 60

Trp Thr Lys Trp Trp Ala Gly Trp Arg Pro Ala Ala Ala Pro Xaa
65 70 75

<210> 4301

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

3928

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4301

Thr Ser Ser Leu Leu Gln Ala His Ser Leu Ile Glu Ser Leu Val Ile
 1 5 10 15

Asn Leu Leu Asn Ala Xaa Xaa Ala Ala Asn Leu Gly Lys Leu Leu Ser
 20 25 30

Trp Trp Gly His Cys Trp Ile Asn Asn Val Arg Tyr Glu Leu Ser Asp
 35 40 45

Ala Leu Thr Trp Ile Leu His Phe Lys Val Xaa Xaa Gly Ala Tyr Gly
 50 55 60

Gln Pro Thr
 65

<210> 4302

<211> 134

<212> PRT

<213> Homo sapiens

<400> 4302

Pro Asp Gln Pro Tyr Glu Trp Leu Ser Tyr Lys Gln Val Ala Glu Leu
 1 5 10 15

Ser Glu Cys Ile Gly Ser Ala Leu Ile Gln Lys Gly Phe Lys Thr Ala
 20 25 30

Pro Asp Gln Phe Ile Gly Ile Phe Ala Gln Asn Arg Pro Glu Trp Val
 35 40 45

Ile Ile Glu Gln Gly Cys Phe Ala Tyr Ser Met Val Ile Val Pro Leu
 50 55 60

Tyr Asp Thr Leu Gly Asn Glu Ala Ile Thr Tyr Ile Val Asn Lys Ala
 65 70 75 80

Glu Leu Ser Leu Val Phe Val Asp Lys Pro Glu Lys Ala Lys Leu Leu
 85 90 95

Leu Glu Gly Val Glu Asn Lys Leu Ile Pro Gly Leu Lys Ile Ile Val
 100 105 110

Val Met Asp Ala Tyr Gly Ser Asn Trp Trp Asn Glu Ala Arg Gly Val

3929

115 120 125
 Gly Trp Lys Ser Pro Ala
 130

<210> 4303
 <211> 355
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (347)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4303
 Cys Ile Ser Leu Xaa Pro Asn Ile Ser Leu Arg His Leu Trp Pro Gln
 1 5 10 15
 Arg Met Cys Pro Ser Gly Val Val Met Ile Thr Trp Gly Met Ser Arg
 20 25 30
 His Pro Gln Val Leu Gln Ala Thr Gln Glu Thr Leu Gln Arg His Gly
 35 40 45
 Ala Gly Ala Gly Gly Thr Arg Asn Ile Ser Gly Thr Ser Lys Phe His
 50 55 60
 Val Glu Leu Glu Gln Glu Leu Ala Glu Leu His Gln Lys Asp Ser Ala
 65 70 75 80
 Leu Leu Phe Ser Ser Cys Phe Val Ala Asn Asp Ser Thr Leu Phe Thr
 85 90 95
 Leu Ala Lys Ile Leu Pro Gly Cys Glu Ile Tyr Ser Asp Ala Gly Asn
 100 105 110
 His Ala Ser Met Ile Gln Gly Ile Arg Asn Ser Gly Ala Ala Lys Phe
 115 120 125
 Val Phe Arg His Asn Asp Pro Asp His Leu Lys Lys Leu Leu Glu Lys
 130 135 140
 Ser Asn Pro Lys Ile Pro Lys Ile Val Ala Phe Glu Thr Val His Ser

3930

145		150		155		160
Met Asp Gly Ala Ile Cys Pro Leu Glu Glu Leu Cys Asp Val Ser His						
	165		170		175	
Gln Tyr Gly Ala Leu Thr Phe Val Asp Glu Val His Ala Val Gly Leu						
	180		185		190	
Tyr Gly Ser Arg Gly Ala Gly Ile Gly Glu Arg Asp Gly Ile Met His						
	195		200		205	
Lys Ile Asp Ile Ile Ser Gly Thr Leu Gly Lys Ala Phe Gly Cys Val						
	210		215		220	
Gly Gly Tyr Ile Ala Ser Thr Arg Asp Leu Val Asp Met Val Arg Ser						
225		230		235		240
Tyr Ala Ala Gly Phe Ile Phe Thr Thr Ser Leu Pro Pro Met Val Leu						
	245		250		255	
Ser Gly Ala Leu Glu Ser Val Arg Leu Leu Lys Gly Glu Glu Gly Gln						
	260		265		270	
Ala Leu Arg Arg Ala His Gln Arg Asn Val Lys His Met Arg His Tyr						
	275		280		285	
Ser Trp Thr Gly Ala Phe Leu Ser Ser Pro Ala Pro Ala Thr Ser Ser						
	290		295		300	
Pro Ser Gly Trp Ala Met Gln His Ser Thr Ala Ser Ser Val Ile Ser						
305		310		315		320
Cys Ser Pro Ser Met Ala Ser Met Cys Arg Pro Ser Thr Thr Gln Leu						
	325		330		335	
Ser Pro Gly Val Lys Ser Ser Cys Ala Trp Xaa Pro Pro Pro Thr Thr						
	340		345		350	
Ala Leu Arg						
355						

<210> 4304

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

3931

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4304

Thr	Lys	Glu	Lys	Lys	Asn	Arg	Gln	Gly	Asn	Ser	Leu	Asp	Met	Ala	Ser
1				5					10					15	

Glu	Ile	His	Met	Thr	Gly	Pro	Met	Cys	Leu	Ile	Glu	Asn	Thr	Asn	Gly
			20					25					30		

Arg	Leu	Met	Ala	Asn	Pro	Glu	Ala	Leu	Lys	Ile	Leu	Ser	Ala	Ile	Thr
		35					40					45			

Gln	Pro	Met	Val	Val	Val	Ala	Ile	Val	Gly	Leu	Tyr	Arg	Thr	Gly	Lys
	50					55					60				

Ser	Tyr	Leu	Met	Asn	Lys	Leu	Ala	Gly	Lys	Lys	Lys	Gly	Phe	Ser	Leu
65					70					75					80

Gly	Ser	Thr	Val	Gln	Ser	His	Thr	Lys	Gly	Xaa	Trp	Met	Trp	Cys	Val
				85					90					95	

Pro	His	Pro	Lys	Lys	Pro	Gly	His	Ile	Leu	Val	Leu	Leu	Asp	Thr	Glu
			100					105					110		

Gly	Leu	Gly	Asp	Val	Glu	Lys	Gly	Asp	Asn	Gln	Asn	Asp	Ser	Trp	Ile
	115						120					125			

Phe	Ala	Leu	Ala	Val	Leu	Leu	Xaa	Ser	Xaa	Phe	Xaa	Tyr	Asn	Ser	Ile
	130					135					140				

Gly	Thr	Ile	Asn	Gln	Gln	Ala	Met	Asp	Gln	Leu	His	Tyr	Gln	Ser	Arg
145					150					155					160

Ser

3932

<210> 4305

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4305

Val Leu His Ser Val Leu Gly Gly Trp Leu Gly Pro Gly Ala Val Ala
 1 5 10 15

Ser Gln Gly Ala Ala Ser Pro Trp Gln Ala Ser Leu Pro Trp Ala Ala
 20 25 30

Leu Pro Gln Thr Pro Asp His Pro Leu Gly Pro Val Pro His Gln Ser
 35 40 45

Pro Ser Ser Cys Leu Trp Gly Ser His His Gly Val Arg Ala Val His
 50 55 60

Ser Ala Ser Gln Cys Val Ser Pro Gly Thr Trp Glu Gly Arg Glu His
 65 70 75 80

Trp Gly Leu Gly Pro Gln Leu Arg Gly Cys Leu Ala Leu Pro Ser Asp
 85 90 95

Xaa Ala Tyr Pro Glu Phe Gly Gly Tyr Phe Pro Leu Ala
 100 105

<210> 4306

<211> 36

<212> PRT

<213> Homo sapiens

<400> 4306

Leu Phe Leu Ser Ser Pro Gly Leu Glu Arg Val Thr Met Leu Phe Leu
 1 5 10 15

Gly Leu His Asn Val Arg Gln Thr Ser Met Phe Pro Arg Asp Pro Lys
 20 25 30

Arg Leu Thr Pro
 35

3933

<210> 4307

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4307

Gly Gln Pro Glu Val Thr Phe Ile Ala Ile Leu Val Leu Val Ser Phe
 1 5 10 15

Phe Thr Ala Ala Cys Phe Ile Ile Lys Val Phe Ile Thr Cys Ile Leu
 20 25 30

Cys Arg Pro Pro Val Ser Ser Cys Asp Leu Glu Cys Leu Thr Ser Trp
 35 40 45

Glu Cys Ser Pro Val Gly Leu Ser Leu Ile Leu Leu His Pro Leu Ile
 50 55 60

Gln Asp Gly Ser Phe Ser Gly Phe Gln Thr Thr Pro Gly His Val Phe
 65 70 75 80

Pro Pro Pro Phe Leu Gln Gln Xaa Pro
 85

<210> 4308

<211> 69

<212> PRT

<213> Homo sapiens

<400> 4308

Met Phe Leu Ile Val Phe Cys Phe Leu Gln Ser Leu Ser Ala Met Pro
 1 5 10 15

Ile Val Leu Ile Phe Tyr Arg Ser Ser Leu Lys Ile Leu Asn Arg Gly
 20 25 30

Ile Gly Ser Gly Gln Ser Glu Trp Leu Glu Phe Trp Leu Ser Lys Lys
 35 40 45

Asn Phe Ile Leu His Lys His Val Val Arg Ser Phe Cys Ala Tyr Ala
 50 55 60

3934

Ala Trp Ile Gly Cys
65

<210> 4309

<211> 74

<212> PRT

<213> Homo sapiens

<400> 4309

Ser Phe Leu Phe His Tyr Phe Cys Tyr Phe Lys Cys Ile Ser Ser Gly
1 5 10 15

Ile Leu Phe Gly Ala Ile Pro Thr Lys Ser Gly Thr Arg Met Cys Leu
20 25 30

Arg Ala Val Thr Phe Gln His Asp Gly Phe Gly Leu Val Trp Phe Cys
35 40 45

Val Leu Phe Ile Cys Ser Phe Phe Cys Cys Asn Arg Lys Trp Leu Gly
50 55 60

Ser Leu Arg Trp Tyr Val Thr Asn Ser Phe
65 70

<210> 4310

<211> 171

<212> PRT

<213> Homo sapiens

<400> 4310

Met Leu Ser Pro Pro Arg Thr Thr Thr Gly Ser Met Thr Ser Trp Gly
1 5 10 15

Thr Cys Gly Ser Gly Gln His His Arg Thr Arg Leu Leu Ser Arg Thr
20 25 30

Cys Ala Ser Ser Gly Gly His Pro Gly Ser Thr Gln Leu Met Ala Leu
35 40 45

Pro Ile Thr Gly Pro Gly Ser Pro Pro Gly Trp Ala Thr Leu Gln Ile
50 55 60

Gln Pro Gln Thr Thr Ser Val Ser Ala Val Leu Gln Thr Gln Ala Gly
65 70 75 80

Arg Gln Gly Ser Cys Lys Gln Pro Gly Gly Asp Lys Glu Lys Ser Leu
85 90 95

3935

Leu Gly Ser Leu Ser Phe Pro Gly His Val Ala Asn Ser Ala Ile Pro
 100 105 110
 Ser Ser Arg Ala Ser Ala Ser Gly Lys Asn Phe Pro Phe Pro Val Ser
 115 120 125
 His Pro Ser Val Ala Gly Ala Ser His Gln Gly Arg Arg Gly Leu Ser
 130 135 140
 Leu Leu Cys Phe Gly Glu Gly Ala Gln Cys Val Leu Thr Met Ala Gly
 145 150 155 160
 Gly Gln Val Phe Leu Leu Glu Ala Lys Tyr Tyr
 165 170

<210> 4311

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4311

Ser Ser His Leu Ser Leu Asn Glu Ala Val Val Ile Ser Gly Arg Lys
 1 5 10 15
 Leu Ala Gln Gln Ile Lys Gln Glu Val Arg Gln Xaa Val Glu Asp Gly
 20 25 30
 Val Gly Ser Arg Gln Gln Thr Ala Thr Pro Glu Cys
 35 40

<210> 4312

<211> 74

<212> PRT

<213> Homo sapiens

<400> 4312

Arg Phe Lys Ser Arg Leu Ser Ile Leu Leu Ser Ile Leu Phe His Phe
 1 5 10 15
 Lys Lys Lys Gly Phe Gly Ile Cys Gln Pro Leu Leu Ser Leu Leu Tyr
 20 25 30

3936

Lys Ala Thr Ala Leu Val Leu Asp Ile Met Pro Gly Leu Ile Ser Gln
 35 40 45

Thr Ser Gly Leu Asn Gln Val His Ala Trp Leu Leu Lys Lys Leu Met
 50 55 60

Leu Ile Pro Lys Ser Ala Gln Ser Gln Pro
 65 70

<210> 4313

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4313

Ala Gln Val Asp Phe Arg Arg Thr Pro Ile Asp Ser Thr Ala Ala Pro
 1 5 10 15

Gly Ala Gln Thr Pro Ala Ala Arg Ser Lys Ala Arg Ser Cys Cys Ser
 20 25 30

His Val Gly Pro Gln Pro Pro His Ser Gly Pro Ala His Gly Xaa Pro
 35 40 45

Pro Ala Ser Cys Gln Gln Gly Leu Gly Asn Phe Ser Pro Gly Cys Arg
 50 55 60

Ala Leu Ser Arg Trp Pro Cys Ser Trp Ser Ser Leu Gln Ser Pro Leu
 65 70 75 80

Gln Ser Thr Thr Ser Gly Ala Arg Arg Ser Arg Xaa Trp Glu Ser Trp
 85 90 95

Trp Gly Thr Asp Trp Lys Val
 100

3937

<210> 4314

<211> 126

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4314

Pro	Arg	Pro	Arg	Gly	Ala	Gly	Ala	Met	Val	Arg	Gly	Arg	Xaa	Phe	Arg
1				5					10					15	

Leu	Ser	Val	Arg	Asp	Val	Arg	Phe	Pro	Thr	Ser	Leu	Gly	Gly	His	Gly
			20					25					30		

Ala	Asp	Ala	Met	His	Thr	Asp	Pro	Asp	Tyr	Ser	Ala	Ala	Tyr	Val	Val
		35					40					45			

Ile	Glu	Thr	Asp	Ala	Glu	Asp	Gly	Ile	Lys	Gly	Cys	Gly	Ile	Thr	Phe
	50					55					60				

Thr	Leu	Gly	Lys	Gly	Thr	Xaa	Val	Val	Val	Cys	Xaa	Val	Asn	Ala	Leu
65					70					75					80

Ala	His	His	Val	Leu	Asn	Lys	Asp	Leu	Lys	Asp	Ile	Val	Gly	Asp	Phe
				85					90					95	

Arg	Gly	Phe	Tyr	Arg	Gln	Leu	Thr	Ser	Asp	Gly	Gln	Leu	Arg	Trp	Ile
		100						105					110		

Gly	Pro	Glu	Lys	Gly	Val	Val	His	Leu	Ala	Thr	Xaa	Pro	Ser
	115							120				125	

3938

<210> 4315

<211> 39

<212> PRT

<213> Homo sapiens

<400> 4315

Trp Ile Lys Asp Leu Asn Val Arg Pro Glu Ser Met Lys Leu Leu Glu
 1 5 10 15

Glu Asn Ile Trp Glu Thr Leu Gln Tyr Pro Gly Leu Gly Glu Asp Phe
 20 25 30

Met Glu Lys Thr Ser Lys Ala
 35

<210> 4316

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4316

Ala Pro Ala Gly Leu Arg Arg Ser Pro Trp Arg Cys Gly Ala Ile Gly
 1 5 10 15

Gly Asp Gly Arg Gly Arg Gly Ala Ser Thr Val Ser His Pro Pro Leu
 20 25 30

Ala Thr Leu Ile Phe Leu Leu His Leu Gly Pro Gly Ala Ser Ser Thr
 35 40 45

Thr Gln Ala Gly Cys Phe Lys Lys Asn Cys Phe Leu Lys Cys Leu Ser
 50 55 60

Leu Lys Glu Ile Ser Leu Thr Leu Glu Val Xaa Gly Ala Ser Ser Gln
 65 70 75 80

Tyr Thr Ser Cys

<210> 4317

<211> 209

3939

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4317

Trp	Xaa	Cys	Ile	Leu	Asn	Ile	Leu	Lys	Gly	Tyr	Asn	Phe	Ser	Arg	Glu
1				5					10					15	

Ser	Val	Glu	Ser	Pro	Glu	Gln	Lys	Gly	Leu	Thr	Tyr	His	Arg	Ile	Val
		20						25					30		

Glu	Ala	Phe	Arg	Phe	Ala	Tyr	Ala	Lys	Arg	Thr	Leu	Leu	Gly	Asp	Pro
		35					40					45			

Lys	Phe	Val	Asp	Val	Thr	Glu	Val	Val	Arg	Asn	Met	Thr	Ser	Glu	Phe
	50					55					60				

Phe	Ala	Ala	Gln	Leu	Arg	Ala	Gln	Ile	Ser	Asp	Asp	Thr	Thr	His	Pro
65					70					75					80

Ile	Ser	Tyr	Tyr	Lys	Pro	Glu	Phe	Tyr	Thr	Pro	Asp	Asp	Gly	Gly	Thr
				85					90					95	

Xaa	His	Leu	Ser	Val	Val	Ala	Xaa	Asp	Gly	Ser	Ala	Val	Ser	Ala	Thr
		100						105					110		

Ser	Thr	Ile	Asn	Leu	Tyr	Phe	Gly	Ser	Lys	Val	Arg	Ser	Pro	Val	Ser
		115					120					125			

Gly	Ile	Leu	Phe	Asn	Asn	Glu	Met	Asp	Asp	Phe	Ser	Ser	Pro	Ser	Ile
	130					135					140				

Thr	Asn	Glu	Phe	Gly	Val	Pro	Pro	His	Leu	Pro	Ile	Ser	Ser	Ser	Gln
145					150					155					160

Gly	Ser	Ser	Arg	Ser	Arg	Pro	Cys	Ala	Arg	Arg	Ser	Trp	Trp	Ala	Arg
				165					170					175	

3940

Thr Ala Arg Ser Gly Trp Trp Trp Glu Leu Leu Gly Ala His Arg Ser
180 185 190

Pro	Arg	Pro	Leu	His	Trp	Pro	Ser	Ser	Thr	Thr	Ser	Gly	Ser	Ala	Met
		195					200					205			

Thr

<210> 4318

<211> 47

<212> PRT

<213> Homo sapiens

<400> 4318

Met Phe Asn Glu Leu Glu Asn Asp Ser Trp Val Val Asn Ile Val Asn
1 5 10 15

Val Asp Glu Leu Phe Ser Phe Ala Glu Ser Ser Tyr Phe Val Gly Gly
20 25 30

Phe Asn Ser Ala Trp Gln Phe Ala Ala Phe Leu Val Val Leu Leu
35 40 45

<210> 4319

<211> 297

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4319

Pro Leu Pro Pro Gln Leu Gln Thr Pro Pro Arg Ser Asn Ser Val Phe
1 5 10 15

Ala Val Asn Gln Ala Val Ser Pro Asn Phe Ser Gln Gly Ser Ala Ile
20 25 30

3941

Ile Ile Ala Ser Pro Val Gln Pro Val Leu Gln Gly Met Val Gly Met
 35 40 45

Ile Pro Val Ser Val Val Gly Gln Asn Gly Asn Asn Phe Ser Thr Pro
 50 55 60

Pro Arg Gln Val Leu His Met Pro Leu Thr Ala Pro Val Cys Asn Arg
 65 70 75 80

Ser Ile Pro Gln Phe Pro Val Pro Pro Lys Ser Gln Lys Ala Gln Gly
 85 90 95

Leu Arg Asn Lys Pro Cys Ile Gly Xaa Gln Val Asn Asn Leu Val Asp
 100 105 110

Ser Ser Gly His Ser Val Gly Cys His Ala Gln Lys Thr Glu Val Ser
 115 120 125

Asp Lys Ser Ile Ala Thr Asp Leu Gly Lys Lys Ser Glu Glu Thr Thr
 130 135 140

Val Pro Phe Pro Glu Glu Ser Ile Val Pro Ala Ala Lys Pro Cys His
 145 150 155 160

Arg Arg Val Leu Cys Phe Asp Ser Thr Thr Ala Pro Val Ala Asn Thr
 165 170 175

Gln Gly Pro Asn His Lys Xaa Val Ser Gln Asn Lys Glu Arg Asn Ala
 180 185 190

Val Ser Phe Pro Asn Leu Asp Ser Pro Asn Val Ser Ser Thr Leu Lys
 195 200 205

Pro Pro Ser Asn Asn Ala Ile Lys Arg Glu Lys Glu Lys Pro Pro Leu
 210 215 220

Pro Lys Ile Leu Ser Lys Ser Glu Ser Ala Ile Ser Arg His Thr Thr
 225 230 235 240

Ile Arg Glu Thr Gln Ser Glu Lys Lys Val Ser Pro Thr Glu Ile Val
 245 250 255

Leu Glu Ser Phe His Lys Ala Thr Ala Asn Lys Glu Asn Glu Leu Cys
 260 265 270

Ser Asp Val Gly Lys Thr Glu Lys Ser Arg Lys Phe Lys Thr Ile Tyr
 275 280 285

Trp Ala Ala Lys Trp Gly Phe Ala Lys
 290 295

3942

<210> 4320

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4320

Trp Xaa Pro Arg Ala Ala Gly Ile Arg His Glu Leu Glu Ser Phe Ala
 1 5 10 15

Val Pro Asn Leu Trp Lys Ser Glu Asp Ile Thr Gln Ile Val Ala Asn
 20 25 30

Tyr Gly Leu Ile Cys Xaa Thr Arg Ala Gly Asn Asp Ala Gln Lys Phe
 35 40 45

Ile Tyr Glu Ser Asp Val Leu Trp Lys His Arg Ser Asn Ile His Val
 50 55 60

Val Asn Glu Trp Xaa Ala Asn Asp Ile Ser Ser Thr Lys Ile Arg Arg
 65 70 75 80

Ala Leu Arg Arg Gly Gln Ser Ile Arg Tyr Leu Val Pro Asp Leu Val
 85 90 95

Gln Glu Tyr Ile Glu Lys His Asn Leu Tyr Ser Ser Glu Ser Glu Asp
 100 105 110

Arg Asn Ala Gly Val Ile Leu Ala Pro Leu Gln Arg Asn Thr Ala Glu
 115 120 125

Ala Lys Thr
 130

3943

<210> 4321

<211> 75

<212> PRT

<213> Homo sapiens

<400> 4321

Asp His Pro Arg Thr Ile Ser Ser Arg Ile Leu Gln Trp Leu Asp Glu
1 5 10 15

Glu Leu Pro Asp Leu Ser Val Ser Arg Arg Ser Ser His Leu His Trp
20 25 30

Gly Ile Pro Val Pro Gly Asp Asp Ser Gln Thr Ile Tyr Val Trp Leu
35 40 45

Asp Ala Leu Val Asn Tyr Leu Thr Val Ile Gly Tyr Pro Asn Ala Glu
50 55 60

Phe Lys Ser Trp Trp Pro Ala Thr Leu Ile Ser
65 70 75

<210> 4322

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4322

Ser Met Trp Gly Lys Glu Arg Ser Asp Cys Tyr Cys Val Cys Val Glu
1 5 10 15

Lys Glu Asp Ile Arg Asn Ser Ile Leu Ile Cys Thr Lys Lys Asn Cys
20 25 30

Phe Cys Phe Glu Met Leu Leu Ala Tyr Asn Phe Ser Pro Asn Ser Val
35 40 45

Leu Thr Glu Thr Cys Ala Val Met Asp Gln Ser Leu Met Asp Leu Gly
50 55 60

3944

Leu Cys Arg Met Cys Leu Val Asn Asn Met Phe Gly Arg Arg Xaa Ala
 65 70 75 80

Leu Gly Arg Ser His Arg Pro Phe Xaa His Ser Pro Val
 85 90

<210> 4323

<211> 133

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4323

Pro Ala Gly Pro Gly Gln Lys Pro Asp Pro Gly Lys Leu Pro Ala Ala
 1 5 10 15

Gly Val Leu Arg Ile Xaa Arg Gly Ser Ser Gly Leu Trp Lys Lys Arg
 20 25 30

Arg Ala Thr Asp Phe Gly Arg Gly Arg Ala Gly Leu Ser Ala Ala Met
 35 40 45

Ser Ala Lys Ala Ile Ser Glu Gln Thr Gly Lys Glu Leu Leu Tyr Lys
 50 55 60

Phe Ile Cys Thr Thr Ser Ala Ile Gln Asn Arg Phe Lys Tyr Ala Arg
 65 70 75 80

Val Thr Pro Asp Thr Asp Trp Ala Arg Leu Leu Gln Asp His Pro Trp
 85 90 95

Leu Leu Ser Gln Asn Leu Val Val Lys Pro Asp Gln Leu Asp Gln Thr
 100 105 110

Ser Trp Xaa Asn Leu Val Phe Val Gly Val Gln Pro His Ser Gly Trp
 115 120 125

Gly Gln Val Leu Gly
 130

3945

<210> 4324

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4324

Leu	Glu	Arg	Xaa	Gly	Ala	Gly	Gly	Arg	Asp	Phe	Trp	Val	Pro	Val	Cys
1				5				10					15		

Cys	Arg	Gly	Leu	His	Val	Ile	Ser	Met	Glu	Lys	Ala	Val	Tyr	Ala	Val
			20				25					30			

Thr	Gln	Ser	Leu	Val	Arg	Gly	Gln	Ala	Pro	Gly	Gly	Gly	Gly	Ser	Ser
		35				40					45				

Cys	Gly	Ser	His	Ser	Pro	Arg	Lys	Pro	Pro	Leu	Pro	Ser	Val	Ser	Gln
	50					55				60					

Ile	Asp	Arg	Glu	Ser	Arg	Asp	Ser	Asp	Arg	Gln	Val	Thr	Ser	Gln	Ile
65					70				75					80	

Glu	Ser	Ile	Phe	Val
				85

<210> 4325

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4325

Pro	Pro	Leu	Thr	Leu	Asp	Ser	Asn	Pro	Val	Val	Ile	Leu	Gly	Trp	Asp
1				5				10				15			

Leu	Gly	Ala	Cys	Arg	Trp	Leu	Arg	Ser	Gln	Pro	Leu	Val	Ile	Arg	Ala
			20				25					30			

3946

Thr Ser Leu Ala Leu Gly Ala Leu Ala Pro Ala Glu Pro Leu Val His
35 40 45

Arg Thr Ala Trp Glu Pro Gly Arg Gly Leu Trp Gln Pro Pro Arg Ala
50 55 60

Glu Val Gln Thr Leu Phe Arg Leu Thr Gln Val His Thr Trp Ile Gly
65 70 75 80

Leu Gly Val Glu Ala Trp Phe Xaa
85

<210> 4326

<211> 71

<212> PRT

<213> Homo sapiens

<400> 4326

Val Phe Gln Gly Ile Ser Gln Arg Gln Ser Val Gln Gln Trp Asp Ile
1 5 10 15

Asn Ala Tyr Leu His Phe Pro Thr Ala Ile Tyr Ile Lys Cys Tyr Ser
20 25 30

Ile Gln Arg Met Pro Phe Ile Pro Thr Leu Lys His Arg Ser Leu Ser
35 40 45

Asn Lys Asn Gln Ile Val Cys His Ser Asn Tyr Asn Cys Ser Tyr Phe
50 55 60

Cys Met Val Arg Val Arg Cys
65 70

<210> 4327

<211> 58

<212> PRT

<213> Homo sapiens

<400> 4327

Asn Phe Gly Gln Val Phe Val Tyr Gln Tyr Phe Val Leu Leu Gly Asn
1 5 10 15

Ile Leu Phe Phe Ser Tyr Leu Cys Gln Ile Ile Ile Ile Lys Gly Thr
20 25 30

Ala Glu Asn Ile Pro Cys Phe Tyr Ile Gly Ser His Leu Tyr Leu Gly
35 40 45

3947

Gly Thr Leu Ser Ile Tyr Ile Leu Phe Val
 50 55

<210> 4328

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4328

His Arg Lys Lys His Phe Leu Lys Pro Thr Val Ser Asp Gln Trp Gly
 1 5 10 15

Lys Gln Gln Lys Thr Lys Arg Arg Ile Phe Pro Leu Ile Phe Leu Gln
 20 25 30

Lys Ser Ile Ser Leu Ile Ala His Cys His Lys Phe Cys Leu Val Leu
 35 40 45

Arg Glu Ala Thr Cys Thr Gly Ser Phe Tyr Val Gln Arg Lys Asp Phe
 50 55 60

Thr Ile Lys Lys Ile Asn Leu Ala Arg Xaa Gly Val Ser His Trp
 65 70 75

<210> 4329

<211> 41

<212> PRT

<213> Homo sapiens

<400> 4329

Pro Leu Gly His His Gln Val Pro Leu Thr Thr Lys Leu Ser Val Lys
 1 5 10 15

Lys Thr Glu Asp Gly Asn Thr Leu Val Phe Ile Val Asn Val Lys Ala
 20 25 30

Asn Lys His Arg Ile Lys Gln Ala Ser
 35 40

3948

<210> 4330

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4330

Ile	Arg	His	Arg	His	Gly	Cys	Pro	Ser	Val	Leu	Arg	Met	Gly	Ser	Xaa
1				5					10					15	

Gln	Val	Gly	Xaa	Xaa	Gly	Cys	Trp	Gln	Asn	Arg	Arg	Ile	Pro	Ser	Phe
			20					25					30		

Ala	Glu	Trp	Gly	Thr	Cys	Ser	Glu	Pro	Ala	Gln	Xaa	Pro	Gly	Leu	Leu
			35				40					45			

Gln	Val	Lys	Leu	Asp	Gly	Arg	Pro	Arg	Ser	Gln	Phe	Leu	Ser	Thr	Arg
		50				55					60				

Arg	Gly	Arg	Cys	Leu	Glu	Pro	Leu	Pro	Thr	Phe	Ser	Trp	Met	Gly	Glu
	65				70					75					80

Ala	Ser	Gln	Glu	Ser	Lys	Gln	Cys	Cys	Pro	His	Gly	Arg	Arg	Thr	Glu
				85					90					95	

Arg	Leu	Gly	Lys	Leu	Gly	Ser	Thr	Ser	His	Pro	Glu	Arg	Leu	Leu	Glu
			100					105					110		

Thr	Pro	Gln	Leu	Glu	Ser	Pro	Gly
		115					120

3949

<210> 4331

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4331

Gly Met Pro Thr Ala Ser Gln Arg Val Gly Gly Gly Leu Cys Thr Leu
1 5 10 15

Ser Thr Asn Leu Pro Pro Thr Arg Leu Leu Thr Thr Ala Pro Arg Arg
20 25 30

Leu Ser Asn Ser Val Ser Cys Pro Arg Gly Arg Gly Leu Pro Val Glu
35 40 45

Xaa Pro Met Cys Leu Pro Leu Val Gln Pro Ala Ala Arg Lys Trp Val
50 55 60

Thr Ala Thr Gly Leu Gly Trp Ala Arg Pro Gly Ser Gly Arg Cys Gly
65 70 75 80

Ile Gly Glu Thr Thr Ala Pro Val Val Ser Ser Ala
85 90

<210> 4332

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

3950

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4332

Cys Lys His Asp Gly Trp Gly Lys His Ser Asn Cys Thr His Gln Gln
 1 5 10 15

Asp Ala Gly Val Thr Cys Ser Asp Gly Ser Asn Leu Glu Met Arg Leu
 20 25 30

Thr Arg Gly Gly Asn Met Cys Ser Gly Arg Ile Glu Ile Lys Phe Gln
 35 40 45

Gly Arg Trp Gly Thr Val Cys Asp Asp Asn Phe Asn Ile Asp His Ala
 50 55 60

Ser Val Ile Cys Arg Gln Leu Glu Cys Gly Ser Ala Val Ser Phe Ser
 65 70 75 80

Gly Ser Ser Asn Phe Gly Xaa Xaa Ser Gly Pro Ile Trp Phe Asp Asp
 85 90 95

Leu Ile Cys Asn Gly Asn Glu Ser Ala Leu Trp Asn Cys Lys His Gln
 100 105 110

Gly Trp Gly Lys His Asn Cys Asp His Ala Glu Asp Ala Gly Xaa Ile
 115 120 125

Cys Ser Lys Gly Xaa Asp Leu Thr
 130 135

<210> 4333

<211> 59

<212> PRT

<213> Homo sapiens

<400> 4333

Ala Thr Ala His Gly Leu Thr Met Leu Ser Ile Pro Tyr Met Glu Arg
 1 5 10 15

Cys Phe Pro Phe Gln Ser Ser Leu Lys Leu Cys Arg Arg Phe Thr Cys
 20 25 30

Val Tyr Arg Ala Lys Arg Asn Gln Gly Met Glu Ile Glu Cys Val Ile
 35 40 45

3951

Lys Ile Lys Leu Phe Met Leu Tyr Asn His Ala
 50 55

<210> 4334

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4334

Lys Ala Cys Leu Leu His Cys Glu Gln Asp Ser Ser Pro Leu Asn His
 1 5 10 15

Glu Tyr Val Ser Val Leu Trp Ile Thr Lys Leu Val Met Leu Leu Ser
 20 25 30

Pro Asn Val Phe Phe Lys Lys Tyr Ser Phe Val His Leu Xaa Val Ile
 35 40 45

Lys Leu Gln Asn
 50

<210> 4335

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4335

Tyr Glu Ser Leu Glu Met Tyr Gln Thr Glu Gly Xaa Phe Ser Leu Gln
 1 5 10 15

Ile Met Ser Asn Val Ala Ile Leu Thr His Phe Ile Asn Ile Tyr Phe
 20 25 30

Val Ile Gly Gly Glu His His Leu Leu Phe
 35 40

3952

<210> 4336

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4336

Ala Leu Asn Ala Lys Leu Phe Tyr Thr Glu Lys Thr Leu Lys Xaa Val

1 5 10 15

Leu Cys Gly Ile Thr Val Ile Cys His Glu Lys Pro Tyr Met Gly Asp

20 25 30

Met Leu Lys Trp Leu Leu Asn Glu Ile Arg Gln Gln Arg Lys Met Pro

35 40 45

Leu Lys Cys

50

<210> 4337

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4337

Asp Tyr Ser Asp Phe Val Ser Phe Leu Leu Asn Phe Gly Gln Phe Cys

1 5 10 15

Phe Cys Leu Cys His Leu Ser Phe Gln Met Tyr Trp His Glu Tyr Phe

20 25 30

His Asn Ile Pro Xaa Leu Ser Phe Thr Phe Leu Gly Tyr Leu Ser Gly

35 40 45

3953

Val Ser Leu Phe Ile Pro Lys Met Phe Ile His Ala Phe Xaa
 50 55 60

<210> 4338

<211> 141

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4338

Asp Met Met Pro Leu Leu His Asn Tyr Val Thr Val Asp Thr Asp Thr
 1 5 10 15

Leu Leu Ser Asp Thr Lys Tyr Leu Glu Met Ile Tyr Ser Met Cys Lys
 20 25 30

Lys Val Leu Thr Gly Val Ala Gly Glu Asp Ala Glu Cys His Ala Ala
 35 40 45

Lys Leu Leu Glu Val Ile Ile Leu Gln Cys Lys Gly Arg Gly Ile Asp
 50 55 60

Gln Cys Ile Pro Leu Phe Val Glu Ala Ala Leu Glu Arg Leu Thr Arg
 65 70 75 80

Glu Val Lys Thr Ser Glu Leu Arg Thr Met Cys Leu Gln Val Ala Ile
 85 90 95

Ala Ala Leu Tyr Tyr Asn Pro His Leu Leu Leu Xaa Thr Leu Glu Asn
 100 105 110

Leu Arg Phe Pro Asn Asn Val Glu Pro Val Thr Asn His Phe Ile Thr
 115 120 125

Gln Trp Leu Asn Asp Val Gly Leu Phe Leu Gly Ala Ser
 130 135 140

<210> 4339

<211> 91

<212> PRT

<213> Homo sapiens

<400> 4339

3954

Leu Ala Ser Met Gly Ile Pro Gln Val Val Val Gln Pro Arg Ser Trp
 1 5 10 15
 Trp Leu Gly Leu Met Leu Leu Pro Ser Pro Ser Val Ser Cys Ser Gly
 20 25 30
 Ser Ala Tyr Val Pro Gly Val Trp Tyr Leu Ile Phe Gln Asp Ala Asp
 35 40 45
 Ile Tyr Phe Leu Pro Thr Thr Pro Tyr Thr Leu Ser Leu Ala Asn Ile
 50 55 60
 Phe Glu Cys Leu Leu Leu Val Cys Leu Ser Ser Val Val Leu Leu Leu
 65 70 75 80
 Cys Pro Lys Cys Met Leu Cys Ser Val Ser Ala
 85 90

<210> 4340

<211> 68

<212> PRT

<213> Homo sapiens

<400> 4340

Ser Tyr Ser Tyr Ser His Glu Arg Gln Asn Val Cys Phe Lys Ile Asn
 1 5 10 15
 Leu Val Phe Cys Thr Phe Lys Phe Glu Lys Val Thr Thr Gly Ser Phe
 20 25 30
 Pro Val Phe Leu His Val Ser Phe Leu Ile Asp His Tyr Trp Gln Thr
 35 40 45
 Val Ser Val Asn Tyr Gln Met Cys Lys Ile Phe Cys Ile Ser Leu Cys
 50 55 60
 Leu Ile Cys Lys
 65

<210> 4341

<211> 125

<212> PRT

<213> Homo sapiens

<400> 4341

Gly Ala Ala Pro Pro Leu Ser Ser Glu His Lys Glu Pro Val Ala Gly
 1 5 10 15

3955

Asp Ala Val Pro Gly Pro Lys Asp Gly Ser Ala Pro Glu Val Arg Gly
 20 25 30
 Ala Arg Asn Ser Glu Pro Gln Asp Glu Gly Glu Leu Phe Gln Gly Val
 35 40 45
 Asp Pro Arg Ala Leu Ala Ala Val Leu Leu Gln Ala Leu Asp Arg Pro
 50 55 60
 Ala Ser Pro Pro Ala Pro Ser Gly Ser Gln Gln Gly Pro Glu Glu Glu
 65 70 75 80
 Ala Ala Glu Ala Leu Leu Thr Glu Thr Val Arg Ser Gln Thr His Ser
 85 90 95
 Leu Pro Ala Pro Glu Ser Pro Glu Pro Ala Ser Ala Ser Pro Ser Asp
 100 105 110
 Ser Gly Glu Trp Ala Arg Gly Glu Arg Ser Leu Arg Gly
 115 120 125

<210> 4342

<211> 50

<212> PRT

<213> Homo sapiens

<400> 4342

Phe Leu Leu Trp Gln Ile Leu Ser Ser Asn Leu Ser Phe Leu Val Glu
 1 5 10 15
 Gln Ala Leu Phe Phe Glu Pro Ser Asn Asp Leu Glu Ala Asp Val Ile
 20 25 30
 Ser Val Pro Phe Ala Ile Cys Cys Val Gly Phe Phe Phe Phe Lys Ala
 35 40 45
 Thr Gln
 50

<210> 4343

<211> 273

<212> PRT

<213> Homo sapiens

<400> 4343

Asp Pro Arg Val Arg Glu Asp Pro Gln Pro Gly Pro Lys Pro Val Pro

3956

1	5	10	15
Glu Pro Glu Pro Glu Pro Glu Pro Ser Arg Glu Pro Val Ala Gly Ala	20	25	30
Pro Gly Cys Gly Thr Ala Gly Pro Pro Ala Met Ala Thr Leu Trp Gly	35	40	45
Gly Leu Leu Arg Leu Gly Ser Leu Leu Ser Leu Ser Cys Leu Ala Leu	50	55	60
Ser Val Leu Leu Leu Ala His Cys Gln Thr Pro Pro Arg Ile Ser Arg	65	70	75
Met Ser Asp Val Asn Val Ser Ala Leu Pro Ile Lys Lys Asn Ser Gly	85	90	95
His Ile Tyr Asn Lys Asn Ile Ser Gln Lys Asp Cys Asp Cys Leu His	100	105	110
Val Val Glu Pro Met Pro Val Arg Gly Pro Asp Val Glu Ala Tyr Cys	115	120	125
Leu Arg Cys Glu Cys Lys Tyr Glu Glu Arg Ser Ser Val Thr Ile Lys	130	135	140
Val Thr Ile Ile Ile Tyr Leu Ser Ile Leu Gly Leu Leu Leu Leu Tyr	145	150	155
Met Val Tyr Leu Thr Leu Val Glu Pro Ile Leu Lys Arg Arg Leu Phe	165	170	175
Gly His Ala Gln Leu Ile Gln Ser Asp Asp Asp Ile Gly Asp His Gln	180	185	190
Pro Phe Ala Asn Ala His Asp Val Leu Ala Arg Ser Arg Ser Arg Ala	195	200	205
Asn Val Leu Asn Lys Val Glu Tyr Gly Thr Ala Ala Leu Glu Ala Ser	210	215	220
Ser Pro Arg Ala Ala Lys Ser Leu Ser Leu Thr Gly Met Leu Ser Ser	225	230	235
Ala Asn Trp Gly Ile Glu Phe Lys Val Thr Arg Lys Lys Gln Ala Asp	245	250	255
Asn Trp Lys Gly Thr Asp Trp Val Leu Leu Gly Phe Ile Leu Ile Pro	260	265	270
Cys			

3957

<210> 4344

<211> 72

<212> PRT

<213> Homo sapiens

<400> 4344

Val Met Ala Pro Lys Asp Val Leu Phe Ile Leu Ile Pro Gly Thr Cys

1 5 10 15

Lys His Val Thr Leu Tyr Gly Lys Arg Asp Phe Gly Gln Ala Pro Val

20 25 30

Ile Pro Asp Thr Gln Glu Ala Glu Ala Lys Glu Ser Leu Lys Pro Gly

35 40 45

Arg Arg Arg Leu Gln Gly Ala Lys Ile Val Pro Met His Ser Ser Leu

50 55 60

Ser Asn Lys Val Arg Leu Cys Leu

65 70

<210> 4345

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4345

Arg Trp Arg Asp Thr Leu Thr Gln Leu Ser Leu Ser Tyr Tyr Ala Thr

1 5 10 15

Asp Gln Gly Lys Arg Trp Asp Asp Arg Trp Gly Gln Thr Glu Arg Ala

20 25 30

Ser Gly Lys Gln Ala Tyr Ile Val Phe Phe Lys Met His Lys Ala Ser

35 40 45

Gln Leu Arg Xaa His Leu Val Trp Ala Ser Leu Gly Leu Glu Thr Leu

50 55 60

Leu Glu Phe Phe Leu Gly Thr Trp Arg Val Asp Asp Ile Gln Ala Leu

3958

65 70 75 80

Lys His Ser Gln Arg Ser Pro Glu Gly Ala Thr Phe Ser Arg
 85 90

<210> 4346

<211> 92

<212> PRT

<213> Homo sapiens

<400> 4346

Arg Glu Gln Ile Lys Arg Val Lys Asp Ser Glu Asp Val Pro Met Val
1 5 10 15

Leu Val Gly Asn Lys Cys Asp Leu Pro Ser Arg Thr Val Asp Thr Lys
 20 25 30

Gln Ala Gln Asp Leu Ala Arg Ser Tyr Gly Ile Pro Phe Ile Glu Thr
 35 40 45

Ser Ala Lys Thr Arg Gln Gly Val Asp Asp Ala Phe Tyr Thr Leu Val
 50 55 60

Arg Glu Ile Arg Lys His Lys Glu Lys Met Ser Lys Asp Gly Lys Lys
65 70 75 80

Lys Lys Lys Lys Ser Lys Thr Lys Cys Val Ile Met
 85 90

<210> 4347

<211> 66

<212> PRT

<213> Homo sapiens

<400> 4347

Pro Ala Ser Glu Val Leu Met Asp Asp Asp Leu Gln Lys Ser Val Asp
1 5 10 15

Met Ile Met Asp Met Phe Cys Pro Pro Gly Ile Lys Ile Asp Ala Tyr
 20 25 30

Pro Trp Leu Glu Cys Phe Ile Lys Ser Tyr Asn Val Thr Asn Gly Thr
 35 40 45

Asp Asn Gln Ile Cys Tyr Gln Ile Phe Asp Thr Thr Val Ala Glu Asp
 50 55 60

3959

Val Ile

65

<210> 4348

<211> 51

<212> PRT

<213> Homo sapiens

<400> 4348

Leu Arg Cys His Lys Lys Gln His Ser Asp Gln Ser Glu Asn Lys Asn
 1 5 10 15

Ser Asp Leu Val Thr Phe Pro Pro Glu Ser Gly Ala Ser Gly Gln Leu
 20 25 30

Ser Thr Leu Val Ser Val Gly Gln Leu Glu Ala Pro Leu Glu Pro Ser
 35 40 45

Gln Asp Leu
 50

<210> 4349

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4349

Lys Ile Ala Glu Leu Glu Phe Ser Pro Val Phe His Phe Thr Leu Pro
 1 5 10 15

Val Ser His Ala Gln Asn Thr Arg Gly Ser Ala Gly Ser Gln Ser Thr
 20 25 30

Asp Glu Asn Pro Asn Leu Ser Xaa Phe Leu Gly Ser Ser Lys Trp Trp
 35 40 45

Ser Arg Met Val Gly Asp Leu Ile Ser Tyr Tyr Leu Pro Gly Glu Xaa

3960

50

55

60

Phe Leu Pro Gly Lys

65

<210> 4350

<211> 313

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (297)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (310)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4350

Gly Gly Gly Arg Gly Arg Glu Gly Arg Arg Pro Glu Arg Gly Cys Cys

1

5

10

15

Glu Gly Arg Gly Pro Val Thr Gly Arg Glu Ala Ala Gly Gly Gly Gly

20

25

30

Gly Thr Ser Thr Thr Met Ser Arg Ser Val Leu Gln Pro Ser Gln Gln

35

40

45

Lys Leu Ala Glu Lys Leu Thr Ile Leu Asn Asp Arg Gly Val Gly Met

50

55

60

Leu Thr Arg Leu Tyr Asn Ile Lys Lys Ala Cys Gly Asp Pro Lys Ala

65

70

75

80

Lys Pro Ser Tyr Leu Ile Asp Lys Asn Leu Glu Ser Ala Val Lys Phe

85

90

95

Ile Val Arg Lys Phe Pro Ala Val Glu Thr Arg Asn Asn Asn Gln Gln

100

105

110

Leu Ala Gln Leu Gln Lys Glu Lys Ser Glu Ile Leu Lys Asn Leu Ala

115

120

125

Leu Tyr Tyr Phe Thr Phe Val Asp Val Met Glu Phe Lys Asp His Val

130

135

140

Cys Glu Leu Leu Asn Thr Ile Asp Val Cys Gln Val Phe Phe Asp Ile

3961

145 150 155 160
 Thr Val Asn Phe Asp Leu Thr Lys Asn Tyr Leu Asp Leu Ile Ile Thr
 165 170 175
 Tyr Thr Thr Leu Met Ile Leu Leu Ser Arg Ile Glu Glu Arg Lys Ala
 180 185 190
 Ile Ile Gly Leu Tyr Asn Tyr Ala His Glu Met Thr His Gly Ala Ser
 195 200 205
 Asp Arg Glu Tyr Pro Arg Leu Gly Gln Met Ile Val Asp Tyr Glu Asn
 210 215 220
 Pro Leu Lys Lys Met Met Glu Glu Phe Val Pro His Ser Lys Ser Leu
 225 230 235 240
 Ser Asp Ala Leu Ile Ser Leu Gln Met Val Tyr Pro Arg Arg Asn Leu
 245 250 255
 Ser Ala Asp Gln Trp Arg Asn Ala Gln Leu Leu Ser Leu Ile Ser Ala
 260 265 270
 Pro Ser Thr Met Leu Asn Pro Ala Gln Ser Asp Thr Met Pro Cys Glu
 275 280 285
 Tyr Leu Ser Leu Gly Cys Asn Gly Xaa Ile Gly Leu Ser Leu Ala Leu
 290 295 300
 Phe Val Pro Trp Gly Xaa Leu Asn Thr
 305 310

<210> 4351

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4351

Gly Arg Gly Ser Val Ile Ser Trp Ile Ser Gly His Ile Cys Tyr Ser
 1 5 10 15

Thr Asp His Gly Thr Leu Gly Glu Glu Arg Cys Phe Pro Ser Thr His
 20 25 30

3962

Leu Met Phe Ile Gly Trp Gly Ser Trp Asn Arg Arg Gln Ile Ser Lys
 35 40 45

Glu Lys Gly Thr Xaa Ile Tyr Val Ile
 50 55

<210> 4352

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4352

Val Ile Pro Ile Tyr Ile Xaa Xaa Cys Phe Thr Gly Leu Ile Ser Thr
 1 5 10 15

Ser Ser Thr Pro Pro Met Asn Ser Ser Asn Thr Ser Ile Ile Val Cys
 20 25 30

Ser Ser Ala Glu Ile Arg Ala Leu Phe Tyr Trp Leu Gly Cys Arg Phe
 35 40 45

Leu Phe Tyr Phe Leu Lys Arg Leu Ile Ser Tyr Arg Lys Gly Phe Phe
 50 55 60

Leu Tyr Pro Val Phe Thr
 65 70

<210> 4353

<211> 93

<212> PRT

<213> Homo sapiens

<400> 4353

Gly Thr Arg Glu Ser Asp Gly Glu Lys Lys Tyr Pro Cys Pro Glu Cys
 1 5 10 15

Gly Ser Phe Phe Arg Ser Lys Ser Tyr Leu Asn Lys His Ile Gln Lys

3963

```

              20                      25                      30
Val His Val Arg Ala Leu Gly Gly Pro Leu Gly Asp Leu Gly Pro Ala
      35                        40                        45
Leu Gly Ser Pro Phe Ser Pro Gln Gln Asn Met Ser Leu Leu Glu Ser
     50                          55                          60
Phe Gly Phe Gln Ile Val Gln Ser Ala Phe Ala Ser Ser Leu Val Asp
   65                            70                            75                            80
Pro Glu Val Asp Gln Gln Pro Met Gly Pro Glu Gly Lys
          85                              90
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<210> 4354

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4354

Ser His Gln Ile Phe Met Phe Lys Lys Ile Ser Leu Trp Ile Glu Ser
1 5 10 15

Ser Pro Ala Leu Arg Glu Lys Glu Gly Pro Tyr Gly Arg Leu Xaa Ser
20 25 30

His Tyr Tyr Cys Leu Tyr Pro Ala Val Leu Met Lys Pro Pro Thr Leu
35 40 45

Ser His Ser Arg Asn His Lys Thr Gln Ala Val Leu Asp Ser Gly Gly
50 55 60

Leu Pro Gly Lys Ile Arg
65 70

<210> 4355

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

3964

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4355

Phe	Ser	Xaa	Pro	Val	Gln	Arg	Leu	Xaa	Cys	Arg	Arg	His	Pro	Leu	Ala
1				5				10						15	

Ala	Cys	Ser	Ser	Ala	Ala	Pro	Phe	Ala	Ala	Val	Pro	Cys	Ala	Pro	Glu
			20					25					30		

Asn	Glu	Asn	Pro	Ala	Phe	Ala	Thr	Asn	His	Ala	Pro	Val	Asn	Ala	Lys
		35					40					45			

Pro	His	Ala	Leu	Cys	Pro	Glu	Arg	Lys	Pro	Leu	Thr	Ser	Lys	Glu	Asn
	50					55					60				

Val	Leu	Met	His	Ser	Ser	Ile	Leu	Ala	Pro	Xaa	Arg	Glu	Ser	Trp	Xaa
65						70				75					80

Thr	Ala	Gly	Glu	Gly	Glu	Asn	Trp	Lys	Lys	Lys	Lys
				85					90		

<210> 4356

<211> 140

<212> PRT

<213> Homo sapiens

<400> 4356

Glu	Cys	Trp	Ser	Glu	Arg	Ser	Leu	Lys	Pro	Gly	Arg	Gly	Ala	Asp	Pro
1				5				10					15		

Leu	Cys	Ser	Ala	Pro	Thr	Leu	Cys	Gln	Gly	Gly	Leu	Ala	Thr	Thr	Val
			20					25					30		

3965

Phe Phe Leu Leu Phe Ile Cys Ser Trp Ile Phe Leu Lys Pro Phe His
 35 40 45
 His Gln Pro Ser Ser Ser Leu Pro Ala Pro Trp Arg Leu Lys Leu Phe
 50 55 60
 Pro Ala Tyr Val Arg Glu Gly Glu Pro Glu Thr Ala Thr Ser Gly Val
 65 70 75 80
 Lys Gly Val Ser Ser Glu Pro Arg Thr Met Ala Phe Cys His Cys Leu
 85 90 95
 Leu Ser Ser Cys Cys Trp Gly Leu Gly Leu Leu Ala Ala Ala Ser Phe
 100 105 110
 Ser Ala Asn Gln Glu Ser Arg Glu Val Gly Thr Ala Ser Thr Lys Thr
 115 120 125
 Leu Lys Met Ser Gly Glu Asp Arg Leu Ser Pro Gly
 130 135 140

<210> 4357

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4357

Leu Gly Leu Gly Gln Cys Leu Trp Pro Xaa Phe Ser His Ser Tyr Xaa
 1 5 10 15

Ala Glu Cys Ser Lys Ser Val Gln Ile Arg Glu Thr Thr Arg Cys Asn
 20 25 30

Gln Ser Ser Cys Ser Leu Pro Tyr Phe Gln Ile Leu Tyr Val Ile Ser

3966

35

40

45

His Phe Xaa Ser Ile Asn Leu Leu Pro Pro
 50 55

<210> 4358

<211> 178

<212> PRT

<213> Homo sapiens

<400> 4358

Ala Leu Arg Leu Arg Glu Asp Asp Arg Arg Gly Gly Thr Met Leu Leu
 1 5 10 15

Pro Asn Ile Leu Leu Thr Gly Thr Pro Gly Val Gly Lys Thr Thr Leu
 20 25 30

Gly Lys Glu Leu Ala Ser Lys Ser Gly Leu Lys Tyr Ile Asn Val Gly
 35 40 45

Asp Leu Ala Arg Glu Glu Gln Leu Tyr Asp Gly Tyr Asp Glu Glu Tyr
 50 55 60

Asp Cys Pro Ile Leu Asp Glu Asp Arg Val Val Asp Glu Leu Asp Asn
 65 70 75 80

Gln Met Arg Glu Gly Gly Val Ile Val Asp Tyr His Gly Cys Asp Phe
 85 90 95

Phe Pro Glu Arg Trp Phe His Ile Val Phe Val Leu Arg Thr Asp Thr
 100 105 110

Asn Val Leu Tyr Glu Arg Leu Glu Thr Arg Gly Tyr Asn Glu Lys Lys
 115 120 125

Leu Thr Asp Asn Ile Gln Cys Glu Ile Phe Gln Val Leu Tyr Glu Glu
 130 135 140

Ala Thr Ala Ser Tyr Lys Glu Glu Ile Val His Gln Leu Pro Ser Asn
 145 150 155 160

Lys Pro Glu Glu Leu Glu Asn Asn Val Asp Gln Ile Leu Lys Trp Ile
 165 170 175

Glu Gln

3967

<210> 4359

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4359

Leu	Met	Val	Ile	Asp	Phe	Ile	Pro	Lys	His	Asn	Trp	Lys	Ile	Glu	Xaa
1				5				10					15		

Glu	Pro	Leu	Pro	Asn	Gly	Lys	Glu	Met	Lys	Ser	Phe	His	Ser	Asp	Tyr
			20				25						30		

<210> 4360

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4360

Asn	Ile	Asn	Pro	Asn	Ser	Pro	Phe	His	Phe	Ser	Leu	Arg	His	Glu	Ser
1				5				10					15		

Tyr	Lys	Thr	Gln	Tyr	Arg	Ala	Met	Phe	Val	Met	Asn	Cys	Ser	Ile	Asn
			20				25						30		

Lys	Glu	Glu	Val	Leu	Arg	Xaa	Lys	Ala	Ser	Glu	Glu	Gln	Glu	Gly	Lys
			35				40					45			

Gly	Gly	Ser	Ile	Arg	Lys	Met	Arg	Ser
		50				55		

<210> 4361

<211> 41

<212> PRT

<213> Homo sapiens

3968

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4361

Asn Gly Phe Glu Thr Ile Gly Thr Asp Lys Ser Gln Ile Gly Gly Ser
 1 5 10 15

Leu Ile Leu Asn Trp Pro Cys His Gln Cys Leu Phe Leu Arg Xaa Phe
 20 25 30

Gly Gly Cys His Val Tyr His Phe Phe
 35 40

<210> 4362

<211> 391

<212> PRT

<213> Homo sapiens

<400> 4362

Thr Trp Val Pro Thr Thr Ile Leu Asp Leu His Gly Ile Leu Asp His
 1 5 10 15

Val Lys Lys Gln Pro Pro Lys Ser Leu Arg Ser Met Glu Leu Glu Cys
 20 25 30

Ala Val Leu Gly Arg Lys Leu Glu Thr Trp Asp Lys His Glu Glu Leu
 35 40 45

Glu Glu Leu Val Ala Arg Phe Leu Gly Val Glu Ala Ala Met Ala Tyr
 50 55 60

Gly Met Gly Phe Ala Thr Asn Ser Met Asn Ile Pro Ala Leu Val Gly
 65 70 75 80

Lys Gly Cys Leu Ile Leu Ser Asp Glu Leu Asn His Ala Ser Leu Val
 85 90 95

Leu Gly Ala Arg Leu Ser Gly Ala Thr Ile Arg Ile Phe Lys His Asn
 100 105 110

Asn Met Gln Ser Leu Glu Lys Leu Leu Lys Asp Ala Ile Val Tyr Gly
 115 120 125

Gln Pro Arg Thr Arg Arg Pro Trp Lys Lys Ile Leu Ile Leu Val Glu
 130 135 140

3969

Gly Ile Tyr Ser Met Glu Gly Ser Ile Val Arg Leu Pro Glu Val Ile
 145 150 155 160
 Ala Leu Lys Lys Lys Tyr Lys Ala Tyr Leu Tyr Leu Asp Glu Ala His
 165 170 175
 Ser Ile Gly Ala Leu Gly Pro Thr Gly Arg Gly Val Val Glu Tyr Phe
 180 185 190
 Gly Leu Asp Pro Glu Asp Val Asp Val Met Met Gly Thr Phe Thr Lys
 195 200 205
 Ser Phe Gly Ala Ser Gly Gly Tyr Ile Gly Gly Lys Lys Glu Leu Ile
 210 215 220
 Asp Tyr Leu Arg Thr His Ser His Ser Ala Val Tyr Ala Thr Ser Leu
 225 230 235 240
 Ser Pro Pro Val Val Glu Gln Ile Ile Thr Ser Met Lys Cys Ile Met
 245 250 255
 Gly Gln Asp Gly Thr Ser Leu Gly Lys Glu Cys Val Gln Gln Leu Ala
 260 265 270
 Glu Asn Thr Arg Tyr Phe Arg Arg Arg Leu Lys Glu Met Gly Phe Ile
 275 280 285
 Ile Tyr Gly Asn Glu Asp Ser Pro Val Val Pro Leu Met Leu Tyr Met
 290 295 300
 Pro Ala Lys Ile Gly Ala Phe Gly Arg Glu Met Leu Lys Arg Asn Ile
 305 310 315 320
 Gly Val Val Val Val Gly Phe Pro Ala Thr Pro Ile Ile Glu Ser Arg
 325 330 335
 Ala Arg Phe Cys Leu Ser Ala Ala His Thr Lys Glu Ile Leu Asp Thr
 340 345 350
 Ala Leu Lys Glu Ile Asp Glu Val Gly Asp Leu Leu Gln Leu Lys Tyr
 355 360 365
 Ser Arg His Arg Leu Val Pro Leu Leu Asp Arg Pro Phe Asp Glu Thr
 370 375 380
 Thr Tyr Glu Glu Thr Glu Asp
 385 390

3970

<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4363
Ser Gly Val Val Thr Ala Cys Glu Gly Thr Glu Leu Ser Ala Gly Ser
1 5 10 15

Arg Asp His Gly His Lys Ala Leu Thr Leu Thr Arg Pro Gln Gln Ala
20 25 30

Leu Xaa Glu Gly Gln Pro Pro Pro Leu Leu Leu Ser Leu Thr Val
35 40 45

Ala Val Asp Leu Arg Xaa Tyr Ile Leu Arg Xaa His Ser Leu
50 55 60

<210> 4364
<211> 225
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

3971

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4364

Gly Thr Arg Ser Gly Ser Glu Glu Asp Pro Glu Thr Glu Ser Gly Pro

Pro Val Glu Arg Cys Gly Val Leu Ser Lys Trp Thr Asn Tyr Ile His
20 25 30

Gly Trp Gln Asp Arg Trp Val Val Leu Lys Asn Asn Ala Leu Ser Tyr
35 40 45

Tyr Lys Ser Glu Asp Glu Thr Glu Tyr Gly Cys Arg Gly Ser Ile Cys
50 55 60

Leu Ser Lys Ala Val Ile Thr Pro His Asp Phe Xaa Glu Cys Arg Phe
65 70 75 80

Asp Ile Ser Val Asn Asp Ser Val Trp Tyr Leu Arg Ala Gln Asp Pro
85 90 95

Asp His Arg Gln Gln Trp Ile Asp Ala Ile Glu Gln His Lys Thr Glu
100 105 110

Ser Gly Tyr Gly Ser Glu Ser Ser Leu Arg Arg His Gly Ser Met Val
115 120 125

Ser Leu Val Ser Gly Ala Ser Gly Tyr Ser Glu Thr Ser Thr Xaa Ser
130 135 140

Phe Lys Lys Gly His Ser Leu Arg Glu Lys Leu Ala Glu Met Glu Thr
145 150 155 160

Phe Arg Asp Ile Leu Cys Arg Gln Val Asp Thr Leu Gln Lys Tyr Xaa
165 170 175

Asp Ala Cys Ala Asp Ala Val Ser Lys Asp Glu Leu Gln Arg Asp Lys
180 185 190

Val Val Glu Asp Asp Glu Asp Asp Phe Pro Thr Thr Arg Ser Asp Gly
195 200 205

Asp Phe Leu His Ser Thr Asn Gly Asn Lys Glu Lys Leu Phe Pro His
210 215 220

Val
225

3972

<210> 4365

<211> 114

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4365

Ile Ala Ser Ala Xaa Phe Tyr Ala Arg Leu Asn Tyr Glu Pro Val Arg
 1 5 10 15

Pro Gly Gly Gly Ser Gly Gly His Ser Ala Arg Cys Arg Arg Arg Glu
 20 25 30

Arg Gly Ala Ala Ala Ala His Gly Ala Pro Ser Ala Ser Phe Phe Pro
 35 40 45

Pro Pro Val Pro Asn Pro Phe Val Gln Gln Thr Gln Ile Gly Ser Ala
 50 55 60

Arg Arg Val Gln Ile Val Leu Leu Gly Ile Ile Leu Leu Pro Ile Arg
 65 70 75 80

Val Leu Leu Val Ala Leu Ile Tyr Tyr Leu His Gly His Cys Cys Ile
 85 90 95

Ser Thr Val Cys Cys Pro Glu Lys Leu Thr His Pro Ile Thr Gly Trp
 100 105 110

Arg Arg

<210> 4366

<211> 56

<212> PRT

<213> Homo sapiens

<400> 4366

Val Gly Met Val Ser His Ser Ser Arg Cys Arg Phe Gly Leu Leu Gly
 1 5 10 15

Thr Ile Trp Leu Asp Pro Glu Ser Ala Trp Asn Arg Asp Arg Asp Leu
 20 25 30

Ser Gly Pro Ala Ala Gly Ser Ser Leu Val Val Ala Val Val Arg Gly
 35 40 45

3973

Leu Arg Trp Leu Pro Gly Leu Val
 50 55

<210> 4367

<211> 389

<212> PRT

<213> Homo sapiens

<400> 4367

Gly Thr Ser Ser Ser Ser Ser Ser Gln Leu Ala Pro Asn Gly Ala Lys
 1 5 10 15

Cys Ile Pro Val Arg Asp Arg Gly Phe Leu Val Gln Thr Ile Glu Phe
 20 25 30

Ala Glu Gln Arg Ile Pro Val Leu Asn Glu Tyr Cys Val Val Cys Asp
 35 40 45

Glu Pro His Val Phe Gln Asn Gly Pro Met Leu Arg Pro Thr Val Cys
 50 55 60

Glu Arg Glu Leu Cys Val Phe Ala Phe Gln Thr Leu Gly Val Met Asn
 65 70 75 80

Glu Ala Ala Asp Glu Ile Ala Thr Gly Ala Gln Val Val Asp Leu Leu
 85 90 95

Val Ser Met Cys Arg Ser Ala Leu Glu Ser Pro Arg Lys Val Val Ile
 100 105 110

Phe Glu Pro Tyr Pro Ser Val Val Asp Pro Asn Asp Pro Gln Met Leu
 115 120 125

Ala Phe Asn Pro Arg Lys Lys Asn Tyr Asp Arg Val Met Lys Ala Leu
 130 135 140

Asp Ser Ile Thr Ser Ile Arg Glu Met Thr Gln Ala Pro Tyr Leu Glu
 145 150 155 160

Ile Lys Lys Gln Met Asp Lys Gln Asp Pro Leu Ala His Pro Leu Leu
 165 170 175

Gln Trp Val Ile Ser Ser Asn Arg Ser His Ile Val Lys Leu Pro Val
 180 185 190

Asn Arg Gln Leu Lys Phe Met His Thr Pro His Gln Phe Leu Leu Leu
 195 200 205

3974

Ser Ser Pro Pro Ala Lys Glu Ser Asn Phe Arg Ala Ala Lys Lys Leu
 210 215 220

Phe Gly Ser Thr Phe Ala Phe His Gly Ser His Ile Glu Asn Trp His
 225 230 235 240

Ser Ile Leu Arg Asn Gly Leu Val Val Ala Ser Asn Thr Arg Leu Gln
 245 250 255

Leu His Gly Ala Met Tyr Gly Ser Gly Ile Tyr Leu Ser Pro Met Ser
 260 265 270

Ser Ile Ser Phe Gly Tyr Ser Gly Met Asn Lys Lys Gln Lys Val Ser
 275 280 285

Ala Lys Asp Glu Pro Ala Ser Ser Ser Lys Ser Ser Asn Thr Ser Gln
 290 295 300

Ser Gln Lys Lys Gly Gln Gln Ser Gln Phe Leu Gln Ser Arg Asn Leu
 305 310 315 320

Lys Cys Ile Ala Leu Cys Glu Val Ile Thr Ser Ser Asp Leu His Lys
 325 330 335

His Gly Glu Ile Trp Val Val Pro Asn Thr Asp His Val Cys Thr Arg
 340 345 350

Phe Phe Phe Val Tyr Glu Asp Gly Gln Val Gly Asp Ala Asn Ile Asn
 355 360 365

Thr Gln Glu Gly Gly Ile His Lys Glu Ile Leu Arg Val Ile Gly Asn
 370 375 380

Gln Thr Ala Thr Gly
 385

<210> 4368

<211> 195

<212> PRT

<213> Homo sapiens

<400> 4368

Thr Ser Leu Gln Leu Met Met Ser Ser Phe Ser Gln Gly Val Gln Arg
 1 5 10 15

Gln Glu Val Val Cys Lys Arg Leu Asp Asp Asn Ser Ile Val Gln Asn
 20 25 30

Asn Tyr Cys Asp Pro Asp Ser Lys Pro Pro Glu Asn Gln Arg Ala Cys

3975

35	40	45
Asn Thr Glu Pro Cys Pro Pro Glu Trp Phe Ile Gly Asp Trp Leu Glu		
50	55	60
Cys Ser Lys Thr Cys Asp Gly Gly Met Arg Thr Arg Ala Val Leu Cys		
65	70	75
Ile Arg Lys Ile Gly Pro Ser Glu Glu Glu Thr Leu Asp Tyr Ser Gly		
	85	90
Cys Leu Thr His Arg Pro Val Glu Lys Glu Pro Cys Asn Asn Gln Ser		
	100	105
Cys Pro Pro Gln Trp Val Ala Leu Asp Trp Ser Glu Cys Thr Pro Lys		
	115	120
Cys Gly Pro Gly Phe Lys His Arg Ile Val Leu Cys Lys Ser Ser Asp		
	130	135
Leu Ser Lys Thr Phe Pro Ala Ala Gln Cys Pro Glu Glu Ser Lys Pro		
	145	150
Pro Val Arg Ile Arg Cys Ser Leu Gly Arg Cys Pro Pro Pro Arg Trp		
	165	170
Val Thr Gly Asp Trp Gly Gln Cys Ser Ala Gln Cys Gly Leu Gly Gln		
	180	185
His Leu Gly		
	195	

<210> 4369

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

3976

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4369

Ala Gln Gly Phe Arg His Glu Xaa Xaa Leu Leu Val Gly Gly Leu Leu
 1 5 10 15

Ala Xaa Asp Gly Asp Cys Pro Gly Val Val Thr Met Phe Leu Ser Ala
 20 25 30

Val Phe Phe Ala Lys Ser Lys Ser Lys Asn Ile Leu Val Arg Met Val
 35 40 45

Ser Glu Ala Gly Thr Gly Phe Cys Phe Asn Thr Lys Arg Asn Arg Leu
 50 55 60

Arg Glu Lys Leu Thr Leu Leu His Tyr Asp Pro Val Val Lys Gln Arg
 65 70 75 80

Val Leu Phe Val Glu Lys Lys Lys Ile Arg Ser Leu
 85 90

<210> 4370

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4370

Arg Phe Gln Phe Pro Val Cys His Arg Trp Pro Pro Ile Phe Gln Lys
 1 5 10 15

Ser Leu Ala Pro Leu Phe Leu Phe Leu His Pro Ser Pro Gln Arg Ser
 20 25 30

Leu Thr Arg Xaa Lys Gln Glu Asp Ser Val Ile Tyr Lys Arg His Phe
 35 40 45

Ser Phe Thr Arg Thr Glu Asn Ser Thr Gln His Tyr Arg Asn Ser
 50 55 60

<210> 4371

<211> 91

3977

<212> PRT

<213> Homo sapiens

<400> 4371

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Asp Val Cys Phe Asn Leu Ile Phe Leu Arg Asp Gly Gly His His Val
 1             5             10             15

Glu Thr Arg Lys Trp Gly Lys Cys Glu Leu Ser Arg Gln Arg Phe Ile
          20             25             30

Leu Cys Leu Tyr Leu Phe Leu Ile Gly Leu Ile Ser Asn Val Leu Asn
          35             40             45

Ser Ser Ile Pro Gly Leu Gly Val Cys Asn Gly Tyr Gln Lys Thr Asn
          50             55             60

Lys Lys Arg Lys Lys Lys Glu Lys Lys Lys Glu Asn Asn Cys Asp Met
          65             70             75             80

Leu Leu Ser Leu Leu Tyr Phe Ser Asn Asn Met
          85             90

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<210> 4372

<211> 64

<212> PRT

<213> Homo sapiens

<400> 4372

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Lys Leu Ser Glu Gly Tyr Tyr Leu Tyr Leu Met Lys Glu Asn Pro Asn
 1             5             10             15

Lys Ala His Leu Glu Ile Asp Ile Leu Leu Tyr Met Cys Tyr Arg Tyr
          20             25             30

Thr Tyr Ile Val Gln Ile Asp Met Cys Asp Ala Tyr Ile Gln Cys Tyr
          35             40             45

Ile Cys Val Tyr Val Cys Ile His Thr Glu Ser Val Ile Cys Ile His
          50             55             60

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<210> 4373

<211> 255

<212> PRT

<213> Homo sapiens

3978

<400> 4373

Glu	Arg	Arg	Val	Arg	Arg	Val	His	Glu	Glu	Val	Arg	Val	Lys	Ile	Lys
1				5					10					15	
Asp	Leu	Asn	Glu	His	Ile	Val	Cys	Cys	Leu	Cys	Ala	Gly	Tyr	Phe	Val
			20					25					30		
Asp	Ala	Thr	Thr	Ile	Thr	Glu	Cys	Leu	His	Thr	Phe	Cys	Lys	Ser	Cys
			35					40					45		
Ile	Val	Lys	Tyr	Leu	Gln	Thr	Ser	Lys	Tyr	Cys	Pro	Met	Cys	Asn	Ile
	50						55				60				
Lys	Ile	His	Glu	Thr	Gln	Pro	Leu	Leu	Asn	Leu	Lys	Leu	Asp	Arg	Val
	65					70				75					80
Met	Gln	Asp	Ile	Val	Tyr	Lys	Leu	Val	Pro	Gly	Leu	Gln	Asp	Ser	Glu
				85					90					95	
Glu	Lys	Arg	Ile	Arg	Glu	Phe	Tyr	Gln	Ser	Arg	Gly	Leu	Asp	Arg	Val
			100					105					110		
Thr	Gln	Pro	Thr	Gly	Glu	Glu	Pro	Ala	Leu	Ser	Asn	Leu	Gly	Leu	Pro
			115					120					125		
Phe	Ser	Ser	Phe	Asp	His	Ser	Lys	Ala	His	Tyr	Tyr	Arg	Tyr	Asp	Glu
			130				135				140				
Gln	Leu	Asn	Leu	Cys	Leu	Glu	Arg	Leu	Ser	Ser	Gly	Lys	Asp	Lys	Asn
	145					150				155					160
Lys	Ser	Val	Leu	Gln	Asn	Lys	Tyr	Val	Arg	Cys	Ser	Val	Arg	Ala	Glu
				165					170					175	
Val	Arg	His	Leu	Arg	Arg	Val	Leu	Cys	His	Arg	Leu	Met	Leu	Asn	Pro
			180					185					190		
Gln	His	Val	Gln	Leu	Leu	Phe	Asp	Asn	Glu	Val	Leu	Pro	Asp	His	Met
			195					200					205		
Thr	Met	Lys	Gln	Ile	Trp	Leu	Ser	Arg	Trp	Phe	Gly	Lys	Pro	Ser	Pro
	210						215				220				
Leu	Leu	Leu	Gln	Tyr	Ser	Val	Lys	Glu	Lys	Arg	Arg	Leu	Ala	Lys	Pro
	225					230				235					240
Pro	Pro	His	Pro	Thr	Pro	Leu	Pro	Ser	Pro	Asp	Ile	Tyr	Val	Lys	
				245					250					255	

3979

<210> 4374

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4374

Met Xaa Leu Leu Tyr Phe Ser Gln Gln Gln Ala Arg Gly Arg Asn Ile
1 5 10 15

His Lys Tyr Asp Arg Ser Tyr Met Lys Phe Gly Ser Pro Pro Ile Lys
20 25 30

Val Ala

<210> 4375

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4375

Cys Ser Pro Leu Ala Glu Glu Val Val Ser Phe Leu Trp Lys Asn Phe
1 5 10 15

Gln Asn Ser Gly Phe Phe Phe Phe Phe Gly Val Phe His Gln Leu Lys
20 25 30

Ser Asp Ser Xaa Phe Glu Phe Ser Ser Tyr Ile Cys Ile Val Ser Ser
35 40 45

Phe Phe Leu Pro Leu Tyr Pro Ser Cys Phe Thr Leu Tyr Leu Ser Ile
50 55 60

Pro Cys Ser Asn Tyr Cys Lys Ser Leu Tyr Arg Lys Ser Ser Val Ile
65 70 75 80

3980

<210> 4376

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4376

Arg	Val	Phe	Gln	Ala	Trp	Leu	Phe	Thr	Xaa	Ser	Phe	Arg	Gly	Thr	Leu
1				5					10					15	

Lys	Pro	Trp	Arg	His	Leu	Ala	Leu	Glu	Pro	Trp	Arg	Phe	Pro	Cys	His
			20					25					30		

Ser	Pro	Cys	Trp	Asp	Lys	Ala	Arg	Ala	Trp	His	Pro	Gly	Met	Met	Phe
		35					40					45			

Pro	Ala	Ala	Glu	Cys	Ala	His	Asn	Leu	Ser	Ser	Ser	Cys	Val	Arg	Gln
	50					55					60				

Leu	His	Met	Leu	Ala	Ser	Asn	Xaa	Pro	Xaa	Gln	Pro	Ser	Gln	Tyr	Tyr
65						70				75				80	

Cys	Phe	Ser	Ser	Ser	Tyr	Arg	Trp	Gly	Asp	Asp	Asp	Ile
				85					90			

<210> 4377

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

3981

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4377

Lys	Glu	Asn	Glu	Lys	Glu	Ser	Pro	Arg	Gln	Arg	Arg	Gly	Lys	Glu	Asn
1				5					10					15	

Lys	Leu	Arg	His	Ser	Xaa	Phe	Ser	Phe	Leu	Thr	Leu	Cys	Leu	Glu	His
			20						25					30	

His	Thr	Ala	His	Lys	Leu	Phe	Pro	Asn	Ala	Gln	Leu	Ala	Pro	Lys	Val
		35						40					45		

Gly	Ala	Trp	His	Gly	Xaa	Gly	Ala	His	Lys	Thr	Leu	Thr	Lys	Leu	Xaa
		50					55				60				

Ala	Gly	Met	Gly	Glu	Xaa	Leu	Leu	Val	His	Ser	Ser	Tyr	Pro	Leu	Pro
	65					70				75					80

Pro	Asn	Pro	Leu	Leu	Ala
					85

<210> 4378

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4378

Glu	Lys	Val	Ser	Leu	Ser	Ser	Pro	Ser	Pro	Ala	Thr	Leu	Ala	Met	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

3982

1	5	10	15
Gln Pro Ala Gly Leu Gln Val Asp Tyr Val Phe Arg Gly Val Glu His	20	25	30
Ala Val Arg Val Met Val Ser Gly Gln Val Leu Glu Leu Glu Val Glu	35	40	45
Asp Arg Met Thr Ala Asp Gln Trp Arg Gly Glu Phe Asp Ala Gly Phe	50	55	60
Ile Glu Asp Leu Thr His Lys Thr Gly Asn Phe Lys Gln Phe Asn Ile	65	70	75
Phe Cys His Met Leu Glu Ser Ala Leu Thr Gln Ser Ser Glu Ser Val	85	90	95
Thr Leu Asp Leu Leu Thr Tyr Thr Asp Leu Glu Ser Leu Arg Asn Arg	100	105	110
Arg Trp Gly Ala Ala Xaa Ser Leu Ala Pro Arg Ser Ala Gln Leu Asn	115	120	125
Ser Lys Arg Tyr Leu Ile Leu Ile Tyr Ser Val Glu Phe Asp Arg Ile	130	135	140
His Tyr Pro Leu Pro Leu Pro Tyr Gln Gly Lys Pro Asp Pro Val Val	145	150	155
Leu Gln Gly Ile Ile Arg Ser Leu Lys Glu Glu Leu Gly Arg Leu Pro	165	170	175
Ser Pro Cys Pro Gly Pro Val Pro Pro Ala Ala Pro Gly Gly Leu Arg	180	185	190
Cys Val Arg Pro	195		

<210> 4379

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

3983

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4379

Xaa	Xaa	Xaa	Xaa	Thr	Leu	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser	Thr
1				5				10						15	

Ala	Val	Ala	Ala	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn
			20					25					30		

Ser	Ala	Arg	Glu	Lys	Asn	Tyr	Leu	Tyr	Ile	Thr	Leu	Lys	Gly	Val	Glu
		35					40					45			

Gly	Leu	Phe	Ala	Glu	Leu	Leu	Arg	Leu	Lys	Tyr	Thr	Leu	Phe	Leu	Glu
	50						55				60				

Lys	Ile	Thr	Asp	Phe	Leu
65					70

<210> 4380

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4380

Arg	Xaa	Trp	Glu	Thr	Ala	His	Pro	Asp	Leu	Pro	Met	Ser	Gln	Asn	Lys
1				5					10					15	

His	Met	Tyr	Ser	Gly	Ser	Phe	Ser	Phe	Ser	Asn	Thr	Leu	Pro	Gln	Lys
			20					25					30		

Gln	Val	Val	Cys	Pro	Arg	His	Lys	Glu	Gly	Lys	Leu	Ala	Ile	Phe	Pro
		35					40					45			

3984

Thr Ser Lys Phe Cys Lys Ile Ile Asp Leu Leu Lys Arg Phe Leu Phe
50 55 60

Ile Ile Pro Thr Leu Cys Lys Trp Lys Gly His Cys Val Pro Cys Val
65 70 75 80

Ser Ser Leu Gln Arg Leu Cys Pro Leu Ala Cys Phe Val Thr Ile Ser
85 90 95

Leu Gly Glu Glu Trp Val His Pro Ala Pro Arg Pro Val Val Ala Arg
100 105 110

Gly Leu Pro Cys Glu Phe
115

<210> 4381

<211> 23

<212> PRT

<213> Homo sapiens

<400> 4381

Glu Gln Val Val Ser Ile Phe Leu His Tyr Leu Phe Leu Glu Thr His
1 5 10 15

Lys Met Asp Cys Ile Phe Leu
20

<210> 4382

<211> 173

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

3985

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4382

Glu	Tyr	Ile	Lys	Asn	Ser	Gln	Asn	Asn	Ser	Thr	Cys	Glu	Tyr	Gly	Ala
1				5					10					15	

Pro	Cys	Lys	Tyr	Ile	Arg	Lys	Pro	Ile	Asp	Tyr	Thr	Val	Leu	Asp	Asp
			20					25					30		

Val	Gly	His	Gly	Val	Lys	Trp	Leu	Lys	Ala	Lys	His	Gly	Asn	Asn	Gln
	35						40					45			

Pro	Ala	Arg	Thr	Gly	Thr	Leu	Ser	Arg	Thr	Asn	Pro	Pro	Thr	Gln	Lys
	50						55					60			

Pro	Pro	Ser	Pro	Pro	Met	Ser	Gly	Arg	Gly	Thr	Leu	Gly	Arg	Asn	Thr
65					70					75					80

Pro	Tyr	Lys	Thr	Leu	Glu	Pro	Val	Lys	Pro	Pro	Thr	Val	Pro	Asn	Asp
				85					90					95	

Tyr	Met	Thr	Ser	Pro	Ala	Arg	Leu	Gly	Ser	Gln	His	Ser	Pro	Gly	Arg
			100					105						110	

Thr	Ala	Ser	Leu	Asn	Gln	Arg	Pro	Arg	Thr	His	Ser	Gly	Ser	Ser	Gly
		115						120				125			

Gly	Ser	Gly	Lys	Phe	Glu	Glu	Asn	Ser	Gly	Ser	Ser	Ser	Xaa	Gly	Xaa
	130						135					140			

Pro	Xaa	Ala	Val	Pro	Thr	Pro	Ser	Ala	Pro	Xaa	Ile	Leu	Lys	Pro	Phe
145					150					155					160

Val	Asp	Xaa	Ser	Asn	Phe	His	Arg	His	His	Phe	Xaa	Pro
				165					170			

3986

<210> 4383

<211> 137

<212> PRT

<213> Homo sapiens

<400> 4383

Leu Glu Val Asp Trp Ser Leu Phe Asp Gly Phe Ala Asp Gly Leu Gly
 1 5 10 15

Val Ala Glu Ala Ile Ser Tyr Val Asp Pro Gln Phe Leu Thr Tyr Met
 20 25 30

Ala Leu Glu Glu Arg Leu Ala Gln Ala Met Glu Thr Ala Leu Ala His
 35 40 45

Leu Glu Ser Leu Ala Val Asp Val Glu Val Ala Asn Pro Pro Ala Ser
 50 55 60

Lys Glu Ser Ile Asp Ala Leu Pro Glu Ile Leu Val Thr Glu Asp His
 65 70 75 80

Gly Ala Val Gly Gln Glu Met Cys Cys Pro Ile Cys Cys Ser Glu Tyr
 85 90 95

Val Lys Gly Glu Val Ala Thr Glu Leu Pro Cys His His Tyr Phe His
 100 105 110

Lys Pro Cys Val Ser Ile Trp Leu Gln Lys Ser Gly Thr Cys Pro Val
 115 120 125

Cys Arg Cys Met Phe Pro Pro Pro Leu
 130 135

<210> 4384

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

3987

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4384

Xaa	Pro	Xaa	Leu	Gly	Arg	Ser	Gln	Xaa	Glu	Pro	Pro	Leu	Ser	Ala	Ser
1				5					10					15	

Xaa	Pro	Pro	Ala	Ser	Gln	Pro	Pro	Gln	Met	Arg	Phe	Leu	Pro	Leu	Pro
			20					25				30			

Pro	Arg	Asn	Gln	Asn	Pro	His	Cys	Ser	Gln	Asp	Gly	Leu	Ile	Tyr	Lys
		35					40					45			

Pro	Asp	Thr	Cys	Ser
		50		

<210> 4385

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4385

Gly	Arg	Gly	Xaa	Val	Asn	Ile	Leu	Ser	Ala	Leu	Phe	Pro	Arg	Gly	Ile
1				5					10					15	

Asn	Ile	Lys	Val	Met	Asp	Ile	Leu	Lys	Ser	Gln	Phe	Asn	Phe	Phe	Leu
			20					25					30		

3988

Phe Thr Met Gln Tyr Ser Arg Gly Thr Ser Asn Val Asp Leu Val Phe
35 40 45

Ser Ser Ser Asn Ala Leu Ile Thr Leu Pro His Arg Val Val Val Gly
50 55 60

Xaa Asn Lys Thr Leu Trp Xaa Gln Lys Lys
65 70

<210> 4386

<211> 82

<212> PRT

<213> Homo sapiens

<400> 4386

Glu Ala Ser Gly Gln Val Leu Pro Pro Asn Leu Lys Thr Leu Gly Met
1 5 10 15

Gln Leu Gly Arg Asp Leu Ser Arg Phe Cys Leu Asp Lys Gln Val Arg
20 25 30

Met Ala Glu His Trp Leu Ile Val Asn Gln Cys Phe Phe Ile Tyr Leu
35 40 45

Lys Tyr Ser Gln Gln Leu Ile Leu Arg Ser Phe Leu Lys Val Leu His
50 55 60

Leu His Pro His Asn Ser Pro Ile Gln Asn Met Glu Gln Gly Cys Gly
65 70 75 80

Ala Val

<210> 4387

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

$\langle 222 \rangle$ (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4387

Gly Asp Ser Val Ser Lys Lys Lys Lys Lys Xaa Val Pro Thr Val Tyr
1 5 10 15

3989

Val Trp Ala Leu Val Leu Glu Pro Val Leu Lys Glu Ser Gly Gln Ala
 20 25 30

Gln Trp Leu Thr Pro Val Ile Ser Ala His Trp Glu Ala Glu Val Gly
 35 40 45

Gly Ser Pro Glu Val Arg Ser Ser Arg Pro Ala Trp Pro Thr Trp
 50 55 60

<210> 4388

<211> 107

<212> PRT

<213> Homo sapiens

<400> 4388

Lys Lys Lys Lys Leu Pro Ile Val Thr Leu Ala Val Leu Ile Asn Lys
 1 5 10 15

Arg Cys Cys Val Arg Ser Pro Val Ser Val Trp Ile Gln Gln Leu Ser
 20 25 30

Arg Glu Ser His Cys Met Gly Val Glu Leu Thr Val Leu Val Ile Cys
 35 40 45

Lys Pro Pro Arg Pro Asn Leu Arg Val Tyr Leu Gly Phe Ser Val Cys
 50 55 60

Pro Leu Gly Phe Cys Phe Thr Leu Phe Trp Cys Arg Phe Ser Ile Tyr
 65 70 75 80

Ser Gln Ile Ser Phe Met Met Phe Lys Thr Phe Thr Asp Val Lys Trp
 85 90 95

Arg Lys Gly Thr Glu Lys Lys Ile Phe Thr Lys
 100 105

<210> 4389

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

3990

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4389

Leu Pro Gly Ser Cys His Ser Pro Ala Ser Ala Ser Arg Val Ala Gly
 1 5 10 15

Thr Thr Gly Thr Cys His His Thr Arg Leu Leu Phe Tyr Ile Phe Ser
 20 25 30

Xaa Asp Xaa Phe His His Val Ser Gln Asp Gly Leu Asp Leu Leu Thr
 35 40 45

Ser

<210> 4390

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4390

Pro Gln Ser Val Ala Ala Gly Ser Thr Ala Leu Gly Ser Asp Thr Val
 1 5 10 15

Met Val Pro Met Ile Gly Gln Asp Leu Xaa Gly Glu Thr Gln Glu Thr
 20 25 30

Arg Pro Cys Ser Ser Arg Pro Glu Gly Arg Gly Ala Pro Glu Leu Gly
 35 40 45

Ser Gly Met Pro His Ser Leu Ala Thr Cys Phe Gly Tyr Ala Pro Cys

3991

50 55 60
 Ser Ser Cys Thr Trp Leu Pro Arg Glu Asn Ser Asp Leu Ser Gly Lys
 65 70 75 80
 Trp Ser Gln Trp Leu Cys Gly Arg Pro Phe Leu Gln Pro Gly Xaa Gln
 85 90 95
 Ser Gly Phe Pro Trp Asp Cys Val Ala Pro Val Pro Thr Gly Leu Pro
 100 105 110
 Ile Pro His Ser His Cys Trp Thr Xaa Thr Arg Thr Gly His Arg Ala
 115 120 125
 Ser Phe Cys
 130

<210> 4391
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 4391
 Lys Thr Val Leu Arg Asp Ser Leu Val Phe Gly Thr Leu Arg Ser Ser
 1 5 10 15
 Leu Gly Arg Ser Leu Ala Leu Ile Val Val Leu Lys Arg Val Leu Ser
 20 25 30
 Gly Leu Glu Pro Met Leu Ser Leu Leu Phe Met Gly Phe His Asn Ile
 35 40 45
 Leu Lys Leu Phe Val
 50

<210> 4392
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 4392
 Val Phe Gln His Tyr Leu Phe Asp Gln Ser Lys Ile His Phe Pro Ser
 1 5 10 15
 Leu Gln Thr Glu His Asn Tyr Ser Cys Leu His Ile His Ile Phe Asp
 20 25 30

3992

Val Pro Thr Phe Cys Ile Leu His Glu Thr Phe Gly Leu Asn Lys Ile
 35 40 45

Leu Arg Ile Leu Tyr Phe Val Ser His Leu Pro Ser Cys Ser Leu Pro
 50 55 60

Ser Ser Lys Asp Val Leu Tyr
 65 70

<210> 4393

<211> 135

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4393

Ser Ser Arg Pro Gln Trp Gln Pro Cys Gly Lys Trp Pro Thr Lys Pro
 1 5 10 15

Tyr Pro Gly Ser Pro Asn Thr Leu Cys Leu Glu Pro Leu Leu Arg Val
 20 25 30

Tyr Ser Leu Arg Gly Leu Cys Gly Arg Ser Met Leu Gln Phe Lys His
 35 40 45

Val Ser Thr Thr Leu Leu Arg Ala Ala Trp Glu Arg Thr Gly His Gln
 50 55 60

Asp Tyr Leu Phe Lys Tyr Lys Lys Arg Gly Lys His Thr His Gly Lys
 65 70 75 80

Lys Ile Val Ser Thr Phe Phe Val Lys Pro Met Ser Val Leu Leu His
 85 90 95

Thr Phe His Val Val Leu Cys Lys Cys Leu Ile Cys Val Ile Lys Leu
 100 105 110

Met Gln Val Lys Lys Lys Lys Lys Met Gly Glu Val Ile Pro Cys Xaa
 115 120 125

Val Ile Ser Leu Leu Arg Val
 130 135

3993

<210> 4394

<211> 134

<212> PRT

<213> Homo sapiens

<400> 4394

Ala Thr Ala Ser Arg Thr Arg Leu Ala Val His Glu Arg Ala Arg Pro
 1 5 10 15

Gly Trp Arg Trp Gly Arg Ala Glu Ala Ala Glu Val Leu Arg Ala Thr
 20 25 30

Gly Gly Trp Gln Trp Ala Gly Glu Arg Gly Arg Gln Ala Arg Leu Gly
 35 40 45

Leu Gly Leu Trp Arg Arg Gly Thr Leu Cys Leu Gly Ser Leu Thr Ala
 50 55 60

Pro Pro Gly Ser Pro Glu Arg Gly Thr Gly Gly Glu Gly Gly Gly Ser
 65 70 75 80

Trp Ala Pro Cys Ala Ala Gly Pro Arg Gly Ala Arg Val Ala Ala Gly
 85 90 95

Ser Ala Gly Pro Asp Arg Val Asn Gly Arg Ala Trp Pro Val Pro Arg
 100 105 110

Gly Ala Pro Ala Ala Thr Ala Leu Ala Ala Gly Thr Gly Val Leu Arg
 115 120 125

Gly Arg Ser Leu Pro Phe
 130

<210> 4395

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

3994

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4395

Ile Lys Ile Thr Ser Ile Cys Glu Leu Asn Phe Ile Ile Cys His Phe
 1 5 10 15

Val Glu Ser Thr Leu His Xaa Leu Val Xaa Leu Glu Leu Ile Val Thr
 20 25 30

Thr Arg Leu Tyr Asp Asn Ser Val Leu Xaa Leu Ile Pro Ile Ile
 35 40 45

<210> 4396

<211> 40

<212> PRT

<213> Homo sapiens

<400> 4396

Ile Ser Leu Asn Pro Cys Tyr Val Phe Phe Phe Ser Gln Val Leu Gln
 1 5 10 15

Asn Asp Tyr Cys Thr Trp Ser Ile Val Leu Ile Val Asn Phe Val Ile
 20 25 30

Asn Leu Leu Cys Val Lys Arg Gly
 35 40

<210> 4397

<211> 33

<212> PRT

<213> Homo sapiens

<400> 4397

Asp Pro Arg Val Arg Pro Arg Val Arg Lys Thr Glu Arg Asp Arg Lys
 1 5 10 15

Glu Lys Leu Ile Gln Glu Gly Lys Leu Asp Arg Thr Phe His Leu Ser
 20 25 30

Tyr

<210> 4398

3995

<211> 439

<212> PRT

<213> Homo sapiens

<400> 4398

His Glu Gln Pro Ser Ala Pro Ser Leu Arg Pro Ala Leu Pro Ser Cys
 1 5 10 15

Pro Pro Arg Gln Arg Leu Val Phe Leu Lys Thr His Lys Ser Gly Ser
 20 25 30

Ser Ser Val Leu Ser Leu Leu His Arg Tyr Gly Asp Gln His Gly Leu
 35 40 45

Arg Phe Ala Leu Pro Ala Arg Tyr Gln Phe Gly Tyr Pro Lys Leu Phe
 50 55 60

Gln Ala Ser Arg Val Lys Gly Tyr Arg Pro Gln Gly Gly Gly Thr Gln
 65 70 75 80

Leu Pro Phe His Ile Leu Cys His His Met Arg Phe Asn Leu Lys Glu
 85 90 95

Val Leu Gln Val Met Pro Ser Asp Ser Phe Phe Phe Ser Ile Val Arg
 100 105 110

Asp Pro Ala Ala Leu Ala Arg Ser Ala Phe Ser Tyr Tyr Lys Ser Thr
 115 120 125

Ser Ser Ala Phe Arg Lys Ser Pro Ser Leu Ala Ala Phe Leu Ala Asn
 130 135 140

Pro Arg Gly Phe Tyr Arg Pro Gly Ala Arg Gly Asp His Tyr Ala Arg
 145 150 155 160

Asn Leu Leu Trp Phe Asp Phe Gly Leu Pro Phe Pro Pro Glu Lys Arg
 165 170 175

Ala Lys Arg Gly Asn Ile His Pro Pro Arg Asp Pro Asn Pro Pro Gln
 180 185 190

Leu Gln Val Leu Pro Ser Gly Ala Gly Pro Arg Ala Gln Thr Leu Asn
 195 200 205

Pro Asn Ala Leu Ile His Pro Val Ser Thr Val Thr Asp His Arg Ser
 210 215 220

Gln Ile Ser Ser Pro Ala Ser Phe Asp Leu Gly Ser Ser Ser Phe Ile
 225 230 235 240

Gln Trp Gly Leu Ala Trp Leu Asp Ser Val Phe Asp Leu Val Met Val

3996

	245		250		255
Ala Glu Tyr Phe Asp Glu Ser Leu Val Leu Leu Ala Asp Ala Leu Cys					
	260		265		270
Trp Gly Leu Asp Asp Val Val Gly Phe Met His Asn Ala Gln Ala Gly					
	275		280		285
His Lys Gln Gly Leu Ser Thr Val Ser Asn Ser Gly Leu Thr Ala Glu					
	290		295		300
Asp Arg Gln Leu Thr Ala Arg Ala Arg Ala Trp Asn Asn Leu Asp Trp					
305		310		315	320
Ala Leu Tyr Val His Phe Asn Arg Ser Leu Trp Ala Arg Ile Glu Lys					
	325		330		335
Tyr Gly Gln Gly Arg Leu Gln Thr Ala Val Ala Glu Leu Arg Ala Arg					
	340		345		350
Arg Glu Ala Leu Ala Lys His Cys Leu Val Gly Gly Glu Ala Ser Asp					
	355		360		365
Pro Lys Tyr Ile Thr Asp Arg Arg Phe Arg Pro Phe Gln Phe Gly Ser					
	370		375		380
Ala Lys Val Leu Gly Tyr Ile Leu Arg Ser Gly Leu Ser Pro Gln Asp					
385		390		395	400
Gln Glu Glu Cys Glu Arg Leu Ala Thr Pro Glu Leu Gln Tyr Lys Asp					
	405		410		415
Lys Leu Asp Ala Lys Gln Phe Pro Pro Thr Val Ser Leu Pro Leu Lys					
	420		425		430
Thr Ser Arg Pro Leu Ser Pro					
	435				

<210> 4399

<211> 104

<212> PRT

<213> Homo sapiens

<400> 4399

Leu Val Asn Ser Met Thr Pro His Phe Arg Cys Leu Asn Thr Trp Tyr
1 5 10 15

Thr Arg Gln Tyr Lys Pro Ser Ala Ser Asn Ala Phe Met Val Cys Gly
20 25 30

3997

Val Leu Tyr Ala Thr Arg Thr Met Asn Thr Arg Thr Glu Glu Ile Phe
 35 40 45

Tyr Tyr Tyr Asp Thr Asn Thr Gly Lys Glu Gly Lys Leu Asp Ile Val
 50 55 60

Met His Lys Met Gln Glu Lys Val Gln Ser Ile Asn Tyr Asn Pro Phe
 65 70 75 80

Asp Gln Lys Leu Tyr Val Tyr Asn Asp Gly Tyr Leu Leu Asn Tyr Asp
 85 90 95

Leu Ser Val Leu Gln Lys Pro Gln
 100

<210> 4400

<211> 143

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4400

Leu Pro Ser Pro Phe Leu Glu Thr Val Ser Thr Val Asp Ser Gly Ala
 1 5 10 15

Pro Thr Asp Leu Ala Gln Leu Pro Thr Val Leu Lys Gln Pro Cys Cys
 20 25 30

Ser Val Met Ala Ser Gly Gln Phe Val Asn Lys Leu Gln Glu Glu Val
 35 40 45

Ile Cys Pro Ile Cys Leu Asp Ile Leu Gln Lys Pro Val Thr Ile Asp
 50 55 60

Cys Gly His Asn Phe Cys Leu Lys Cys Ile Thr Gln Ile Gly Glu Thr
 65 70 75 80

Ser Cys Gly Phe Phe Lys Cys Pro Leu Cys Lys Thr Ser Val Arg Lys
 85 90 95

Asn Ala Ile Arg Phe Asn Ser Leu Leu Arg Asn Leu Val Glu Lys Ile
 100 105 110

Gln Ser Ser Thr Xaa Pro Leu Arg Cys Ser Pro Lys Gly Lys Glu Ala

3998

115

120

125

Thr Leu Pro Glu Ala Pro Gly Asp Val Pro Leu Phe Leu Arg Gly
 130 135 140

<210> 4401

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4401

Arg Met Glu Thr Ser Val Ile Lys Asp Ile Leu Phe Leu Thr Leu Ser
 1 5 10 15

Arg Leu Leu Thr Cys Ser Leu Asp Tyr Asn Pro Thr Cys Lys Lys Asn
 20 25 30

Leu Lys Met Val Met Arg Lys Val Arg Tyr Ile Tyr Ile Tyr Val Leu
 35 40 45

Xaa Phe
 50

<210> 4402

<211> 98

<212> PRT

<213> Homo sapiens

<400> 4402

Asn Ser Ala Arg Glu Arg Pro Ser Ser Val Lys Ser Leu Arg Ser Glu
 1 5 10 15

Arg Leu Ile Arg Thr Ser Leu Asp Leu Glu Leu Asp Leu Gln Ala Thr
 20 25 30

Arg Thr Trp His Ser Gln Leu Thr Gln Glu Ile Ser Val Leu Lys Glu
 35 40 45

Leu Lys Glu Gln Leu Glu Gln Ala Lys Ser His Gly Glu Lys Glu Leu
 50 55 60

Pro Gln Trp Leu Arg Glu Asp Glu Arg Phe Arg Leu Leu Leu Arg Met

3999

65 70 75 80

Leu Glu Lys Arg Met Asp Arg Ala Asp Thr Arg Val Ser Phe Arg Gln

 85 90 95

Thr Arg

<210> 4403

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4403

Thr Lys Phe Xaa Gly Pro Leu Asn His Leu Asn Gly Leu Pro Ser Gly

1 5 10 15

Pro Gly His Ser Lys Ile Lys Pro Glu Arg Leu Val Gln Ala Met Met

 20 25 30

Gly Ser Gly Ser Arg Thr Cys Leu Ile Ile Pro Ser Ser Ile Asn Ile

 35 40 45

Asn Thr Asp Leu Lys Ala Asp Lys Lys His Leu Gln Ser Ile Leu Ser

 50 55 60

Glu Val Phe Tyr Leu Glu Ala Ser Ser Ala

65 70

<210> 4404

<211> 305

<212> PRT

<213> Homo sapiens

<400> 4404

Pro Ser Ser His Phe Ala Ser Ile Phe Glu Glu Ser His Val Pro Val

1 5 10 15

Ile Glu Glu Ser Leu Arg Val Gln Ile Cys Glu Lys Ala Glu Glu Leu

 20 25 30

Lys Asp Ile Val Pro Glu Lys Lys Ser Thr Leu Asn Glu Asn Gln Pro

4000

35	40	45
Glu Ile Lys His Gln Ser Leu Leu Gln Lys Asn Val Ser Lys Arg Asp		
50	55	60
Pro Pro Ser Ser His Gly His Ser Asn Lys Lys Asn Leu Leu Lys Val		
65	70	75
Glu Asn Gly Val Thr Arg Arg Gly Arg Ser Val Ser Pro Lys Lys Pro		
	85	90
Ala Ser Gln His Ser Glu Glu His Leu Asp Lys Ile Pro Ser Pro Leu		
	100	105
Lys Asn Asn Pro Lys Arg Arg Pro Arg Asp Gln Ser Leu Ser Pro Ser		
	115	120
Lys Gly Glu Asn Lys Ser Cys Gln Val Ser Thr Arg Ala Gly Ser Gly		
	130	135
Gln Asp Gln Cys Arg Lys Ser Arg Val Val Ala Ser Pro Lys Lys Gln		
145	150	155
Gln Lys Ile Glu Gly Ser Lys Ala Pro Ser Asn Ala Glu Ala Lys Leu		
	165	170
Leu Glu Gly Lys Ser Arg Arg Ile Ala Gly Tyr Thr Gly Ser Asn Ala		
	180	185
Glu Gln Ile Pro Asp Gly Lys Glu Lys Ser Asp Val Ile Arg Lys Asp		
	195	200
Ala Lys Gln Asn Gln Leu Glu Lys Ser Arg Thr Arg Ser Pro Glu Lys		
	210	215
Lys Ile Lys Arg Met Val Glu Lys Ser Leu Pro Ser Lys Met Thr Asn		
225	230	235
Lys Thr Thr Ser Lys Glu Val Ser Glu Asn Glu Lys Gly Lys Lys Val		
	245	250
Thr Thr Gly Glu Thr Ser Ser Ser Asn Asp Lys Ile Gly Glu Asn Val		
	260	265
Gln Leu Ser Glu Lys Arg Leu Lys Gln Glu Pro Glu Glu Lys Val Val		
	275	280
Ser Asn Lys Thr Glu Asp His Lys Gly Lys Glu Leu Glu Ala Ala Val		
	290	300

Gln

4001

305

<210> 4405

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4405

Ser	Ser	Asn	Arg	Phe	Val	Phe	Lys	Asp	Pro	Asn	Arg	Phe	Val	Ile	Leu
1					5				10					15	

Asn	Lys	His	Val	Ala	Ile	Tyr	Lys	Thr	Cys	Leu	Lys	Val	Leu	Leu	Ser
			20					25					30		

Pro	Trp	Asn	Phe	Phe	Leu	Tyr	Phe	Met	Leu	Ile	Tyr	Leu	Xaa	Phe	Tyr
		35					40						45		

Ser	Leu	Ile	Ile	Ala	Leu	Glu	Arg	Pro	His	His	Cys	Leu	His	Gly	Asn
	50					55					60				

Val	Val	Gly	Thr	Asn	Thr	Trp
65					70	

<210> 4406

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

4002

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

4003

<400> 4406

Ile Ser Cys Asn Tyr Cys Ser Cys Xaa Asn Ser Cys Glu Trp Leu Xaa
1 5 10 15

Val Xaa Leu Xaa Val Leu Gly Xaa Xaa Trp Tyr Thr Phe Val Gly Cys
20 25 30

Xaa Leu Lys Glu Xaa Ala Xaa Pro Val Cys Ser Leu Tyr His Thr Xaa
35 40 45

Leu Pro Leu Thr Ser Leu Gly Leu Leu Xaa Ser Lys Phe Cys Lys Pro
50 55 60

Phe Ser Gln Val Gln Arg Tyr Ile Leu Thr Leu Ser Ser Pro Xaa Leu
65 70 75 80

Leu Ser Arg Asn Phe Xaa
85

<210> 4407

<211> 34

<212> PRT

<213> Homo sapiens

<400> 4407

Ser Ala Cys Leu Gly Leu Pro Lys Cys Trp Asp Tyr Arg His Glu Pro
1 5 10 15

Pro His Val Ala His Phe Phe Phe Ile Ser Glu Phe Val Val Phe Thr
20 25 30

Leu Phe

<210> 4408

<211> 148

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

4004

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4408

Glu	Ile	Gly	Tyr	Leu	Met	Ser	Lys	Glu	Xaa	Asn	Tyr	Lys	Arg	Thr	Arg
1				5				10					15		

Glu	Tyr	Ile	Arg	Xaa	Leu	Lys	Xaa	Val	Pro	Ser	Ile	Pro	Tyr	Leu	Gly
			20					25					30		

Ile	Tyr	Leu	Leu	Xaa	Leu	Ile	Tyr	Ile	Xaa	Ser	Ala	Tyr	Pro	Ala	Ser
		35					40					45			

Gly	Val	Ile	Met	Glu	Asn	Glu	Gln	Arg	Ser	Asn	Gln	Met	Asn	Asn	Ile
	50					55					60				

Leu	Arg	Ile	Ile	Ala	Asp	Leu	Gln	Val	Ser	Cys	Ser	Tyr	Asp	His	Leu
65					70					75					80

Thr	Thr	Leu	Pro	His	Val	Gln	Lys	Tyr	Leu	Lys	Ser	Val	Arg	Tyr	Ile
				85					90					95	

Glu	Glu	Leu	Gln	Lys	Phe	Val	Glu	Asp	Asp	Asn	Tyr	Lys	Leu	Ser	Leu
			100					105					110		

Arg	Ile	Glu	Pro	Gly	Ser	Ser	Ser	Pro	Arg	Leu	Val	Ser	Ser	Lys	Glu
		115					120					125			

Asp	Leu	Ala	Gly	Pro	Ser	Ala	Gly	Ser	Gly	Ser	Ala	Arg	Phe	Ser	Arg
	130					135					140				

Arg	His	Leu	Ser
145			

<210> 4409

4005

<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4409
Thr Pro Tyr Val Ser Leu Arg Ile Leu Tyr Asp Ser Glu Phe Ser Ile
1 5 10 15
Ser Xaa Lys Trp Ser His Phe Cys Phe Val Pro Tyr Asn Ser Thr Glu
20 25 30
Ser Phe Phe Phe Xaa Arg Lys Gly Val Gly Lys Gly Lys Trp Glu Lys
35 40 45
Thr Trp Asn His Ile Pro Leu Phe Gly Ala Ala Arg Gln Glu Phe
50 55 60

<210> 4410
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

4006

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4410

Ile Xaa Arg Lys Ala Lys Ile Ser Trp Trp Lys Ser Glu Val Thr Arg
 1 5 10 15

Arg Ser Phe Trp Ser Arg Val Leu Met Ser Ala Ala Pro Ala Lys Pro
 20 25 30

Leu Ala Ser Cys Cys Ala Xaa Tyr Ser Val Ser Lys Ala Arg Ala Ile
 35 40 45

Gly Gln His Ser Pro Gly Ser Xaa Trp Ala Thr Ser Ala Xaa Phe Phe
 50 55 60

Phe Phe Phe Gly Xaa Trp Gln Arg His Gly Pro Asn Gly His His Gln
 65 70 75 80

Ser Gly Leu

<210> 4411

<211> 39

<212> PRT

<213> Homo sapiens

<400> 4411

Leu Asn Thr Ser Tyr Leu Tyr Phe Phe Ser Ile Ser Phe His Leu Ser
 1 5 10 15

Val Ser Ser Phe Ser His Asp Leu Thr Cys Leu Tyr Phe Leu Leu Thr
 20 25 30

Asp Lys Ala Phe Lys Asn Ser
 35

<210> 4412

<211> 78

<212> PRT

<213> Homo sapiens

4007

<400> 4412

His Phe Arg Glu Gly Gln Gly Ile Met Met Pro Ser Cys Lys Gly Ser
1 5 10 15
Leu Cys Glu Lys Lys Lys Ser Asn Asn Val Asp Phe Lys Ile Thr Lys
20 25 30
Asp Ile His Leu Gln Phe Met Lys Gly Lys Cys Ser Leu Asp Thr Lys
35 40 45
Leu Ile Lys Leu Asp Gln Glu Ile Leu Glu Leu Asn Ala Lys Asn Asn
50 55 60
Pro Cys Ile Tyr Gly Phe Asp Phe Tyr Ile Phe Pro Ala Ser
65 70 75

<210> 4413

<211> 62

<212> PRT

<213> Homo sapiens

<400> 4413

Val Pro Ile Ile Leu Lys Asn Ser His Lys Tyr Asn Lys Val His Cys
1 5 10 15
Phe Arg Val Phe Lys Lys Arg Val Val Pro Lys Ala Ile Leu Thr Leu
20 25 30
Leu Cys Tyr His Cys Lys Gly Val Ile Cys Met Tyr Tyr Ile Lys Lys
35 40 45
Lys Thr Leu Asn Ala Leu Leu Ser Pro Lys Tyr Leu Val Asn
50 55 60

<210> 4414

<211> 121

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

4008

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4414

Ile	Leu	Glu	Asp	Leu	Glu	Pro	Glu	Cys	Pro	Leu	Thr	Gln	Gln	Ser	His
1				5					10					15	

Tyr	Trp	Leu	Tyr	Thr	Gln	Arg	Xaa	Ile	Asn	His	Ser	Thr	Ile	Lys	Thr
		20						25					30		

Cys	Ala	Phe	Tyr	Tyr	Lys	Asp	Met	Cys	Met	Phe	Ile	Ala	Ala	Leu	Phe
		35					40					45			

Thr	Ile	Ala	Lys	Thr	Trp	Asn	Gln	Pro	Lys	Cys	Pro	Ser	Met	Ile	Asp
	50					55					60				

Trp	Ile	Lys	Lys	Thr	Trp	His	Ile	Xaa	Thr	Met	Glu	Tyr	Tyr	Ala	Ala
65					70					75					80

Ile	Lys	Lys	Asn	Xaa	Phe	Met	Xaa	Phe	Ala	Gly	Xaa	Trp	Met	Lys	Xaa
			85						90					95	

4009

Glu Thr Ile Ile Leu Xaa Lys Leu Thr Gln Glu Gln Lys Thr Lys His
100 105 110

Xaa Met Leu Ser Leu Ile Ser Gly Ser
115 120

<210> 4415

<211> 20

<212> PRT

<213> Homo sapiens

<400> 4415

Pro Leu Leu Gly Ile Tyr Leu Arg Lys Asn Lys Ala Tyr Ile His Met
1 5 10 15

Lys Thr Cys Lys
20

<210> 4416

<211> 82

<212> PRT

<213> Homo sapiens

<400> 4416

Leu Pro Val Leu Trp Leu Gly Pro Ser Leu Ser Thr Ser Gly Glu Cys
1 5 10 15

Met Cys Leu Ser Asp Gln His His Cys Thr Arg Arg Ser Ser Glu Pro
20 25 30

Leu Ala Lys Cys His Thr His Ser Ser Gln Arg Arg Asp Glu Leu Lys
35 40 45

Leu Tyr Ser Glu Ile Met Lys Pro Glu Pro Val Pro Asp Leu Leu Leu
50 55 60

Pro Leu Ile Glu Leu Leu Cys Asn Ser Lys Phe Lys Ile Arg Ser Arg
65 70 75 80

Glu Arg

<210> 4417

<211> 151

<212> PRT

4010

<213> Homo sapiens

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4417

Gly	Thr	Ser	Ala	Gly	Ala	Gln	Thr	Lys	Gly	Ala	Leu	Cys	Gln	Leu	Lys
1				5				10					15		

Val	Pro	Thr	Glu	Lys	Leu	Pro	Ser	Pro	Leu	Pro	Thr	Met	Ala	Asp	Glu
			20					25					30		

Ile	Asp	Phe	Thr	Thr	Gly	Asp	Ala	Gly	Ala	Ser	Ser	Thr	Tyr	Pro	Met
		35					40					45			

Gln	Cys	Ser	Ala	Leu	Arg	Lys	Asn	Gly	Phe	Val	Val	Leu	Lys	Gly	Arg
	50					55					60				

Pro	Cys	Lys	Ile	Val	Glu	Met	Ser	Thr	Ser	Lys	Thr	Gly	Lys	His	Gly
65					70					75					80

His	Ala	Lys	Val	His	Leu	Val	Gly	Ile	Asp	Ile	Phe	Thr	Gly	Lys	Lys
				85					90					95	

Tyr	Glu	Asp	Ile	Cys	Pro	Ser	Thr	His	Asn	Met	Asp	Val	Pro	Asn	Ile
			100					105					110		

Lys	Arg	Asn	Asp	Tyr	Gln	Leu	Ile	Cys	Ile	Gln	Asp	Gly	Tyr	Leu	Ser
		115					120					125			

Leu	Leu	Thr	Glu	Thr	Gly	Glu	Val	Arg	Glu	Asp	Leu	Lys	Leu	Pro	Glu
	130					135					140				

Gly	Xaa	Thr	Arg	Gln	Arg	Lys
145					150	

<210> 4418

<211> 75

<212> PRT

<213> Homo sapiens

<400> 4418

Asp	Glu	Glu	Thr	Val	Lys	Thr	Pro	Arg	Lys	Lys	Thr	Cys	Val	His	Phe
1				5					10				15		

Ser	Gly	Lys	Phe	Ser	Asn	Cys	Val	Ile	Gln	Phe	Ser	Phe	Asn	Tyr	Ile
			20					25					30		

4011

Ile Trp Leu Tyr Ala Leu Lys Asn Ile Cys Leu Asn Val Pro Gly Phe
 35 40 45

Leu Leu Val Leu Glu Ser Ala Glu Cys Trp Leu Cys Ser His Ser Tyr
 50 55 60

Phe Cys Ile Gln Lys Gly Val Thr Pro Phe Ile
 65 70 75

<210> 4419

<211> 48

<212> PRT

<213> Homo sapiens

<400> 4419

Val Lys Ala Thr Cys Leu Gly Phe Leu Asn His Ile Asn Cys Tyr Ile
 1 5 10 15

Leu Tyr Phe Ile Ile Ile Leu Cys Val Ser Val Tyr Trp Asn Asn Met
 20 25 30

Phe Tyr Leu Val Ser Trp Cys Lys Ser Phe Leu Asn Leu Leu Leu Tyr
 35 40 45

<210> 4420

<211> 38

<212> PRT

<213> Homo sapiens

<400> 4420

Tyr Ala Ser Ser Lys Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser
 1 5 10 15

Ser Thr Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys
 20 25 30

Arg Asn Ser Ala Arg Val
 35

<210> 4421

<211> 59

4012

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4421

Ser Cys Gln Ser Leu Asp Xaa Glu Val Ser Gly Lys Ser Leu Lys Tyr
 1 5 10 15

Ala Phe Asp Thr Gly Lys Tyr Ile Leu Leu Met Phe His Lys Arg Ile
 20 25 30

Leu Glu Ser Val Glu Asn Ile Asn Tyr Phe His Glu Leu Phe Leu Lys
 35 40 45

Tyr Asn Phe Lys Val Leu Ile Phe Leu Phe Lys
 50 55

<210> 4422

<211> 68

<212> PRT

<213> Homo sapiens

<400> 4422

Glu Val Ile Gln Ile Thr Phe Val Val Val Ile Phe Asn Tyr Ser Ser
 1 5 10 15

Thr Leu Thr His Asp Glu Leu Arg Asn Ile Lys Asp Asn Cys Cys Leu
 20 25 30

Asn Ser Thr Pro Arg Asp Thr Asp Leu Ile Gly Leu Gly Trp Arg Ser
 35 40 45

Gly Met Val Val Phe Phe Lys Leu Gln Ser Ser Ala Arg Gln Leu Leu
 50 55 60

Tyr Val Gly Phe
 65

<210> 4423

<211> 160

<212> PRT

<213> Homo sapiens

4013

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (147)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (158)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4423

Gly Pro Gly Lys Arg Arg Leu Gln Gly Arg Ser Arg Gly His Met Ala
1 5 10 15

Glu Gly Asp Ala Arg Ser Asp Gln Arg His Asn Glu Glu Ile Glu Ala
20 25 30

Met Ala Pro Ile Tyr Gly Glu Glu Trp Cys Val Ile Asp Asp Cys Ala
35 40 45

Lys Ile Phe Cys Ile Arg Ile Xaa Asp Asp Xaa Asp Asp Pro Xaa Trp
50 55 60

Thr Leu Cys Leu Xaa Val Met Leu Pro Asn Glu Tyr Pro Gly Thr Ala
65 70 75 80

Pro Pro Ile Tyr Gln Leu Asn Ala Pro Trp Leu Lys Gly Gln Glu Arg
85 90 95

Ala Asp Leu Ser Asn Ser Leu Glu Glu Ile Tyr Ile Gln Asn Ile Gly
100 105 110

4014

Glu Ser Ile Leu Tyr Leu Trp Val Glu Glu Asn Lys Arg Cys Ser Tyr
 115 120 125

Tyr Lys Asn Leu Gln Val Thr Glu Pro Gly Pro Asp Val Lys Gly Gly
 130 135 140

Lys Leu Xaa Glu Glu Asp Val Gly Met Trp Lys Val Asp Xaa His Phe
 145 150 155 160

<210> 4424

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4424

Gly Leu Thr Ile Lys Xaa Ile Glu Lys Glu Thr Leu His Gly Met Ser
 1 5 10 15

Phe Ile Pro Pro Pro Asn Lys Val Leu Lys Val Phe Ile Leu Pro Ser
 20 25 30

Ile Phe Leu Lys Leu Phe Tyr Lys Arg Asp Phe Val Glu Val Pro Arg
 35 40 45

Phe Cys Gln Thr Ser Ser Ser Leu Thr Arg Leu Arg Gly Pro Cys Gln
 50 55 60

Gln Ser Asn Leu Arg Asp
 65 70

<210> 4425

<211> 262

<212> PRT

<213> Homo sapiens

<400> 4425

Asp Ser His Gln Ala Arg Ser Arg Arg Leu Glu Ala Leu Trp Ser Pro
 1 5 10 15

4015

Ser Leu Gly Glu Val Ser Ser Ser Thr Met Lys Gly Ile Leu Val Ala
 20 25 30
 Gly Ile Thr Ala Val Leu Val Ala Ala Val Glu Ser Leu Ser Cys Val
 35 40 45
 Gln Cys Asn Ser Trp Glu Lys Ser Cys Val Asn Ser Ile Ala Ser Glu
 50 55 60
 Cys Pro Ser His Ala Asn Thr Ser Cys Ile Ser Ser Ser Ala Ser Ser
 65 70 75 80
 Ser Leu Glu Thr Pro Val Arg Leu Tyr Gln Asn Met Phe Cys Ser Ala
 85 90 95
 Glu Asn Cys Ser Glu Glu Thr His Ile Thr Ala Phe Thr Val His Val
 100 105 110
 Ser Ala Glu Glu His Phe His Phe Val Ser Gln Cys Cys Gln Gly Lys
 115 120 125
 Glu Cys Ser Asn Thr Ser Asp Ala Leu Asp Pro Pro Leu Lys Asn Val
 130 135 140
 Ser Ser Asn Ala Glu Cys Pro Ala Cys Tyr Glu Ser Asn Gly Thr Ser
 145 150 155 160
 Cys His Gly Lys Pro Trp Lys Cys Tyr Glu Glu Glu Gln Cys Val Phe
 165 170 175
 Leu Val Ala Glu Leu Lys Asn Asp Ile Glu Ser Lys Ser Leu Val Leu
 180 185 190
 Lys Gly Cys Ser Asn Val Ser Asn Ala Thr Cys Gln Phe Leu Ser Gly
 195 200 205
 Glu Asn Lys Thr Leu Gly Gly Val Ile Phe Arg Lys Phe Glu Cys Ala
 210 215 220
 Asn Val Asn Ser Leu Thr Pro Thr Ser Ala Pro Thr Thr Ser His Asn
 225 230 235 240
 Val Gly Ser Lys Ala Ser Leu Tyr Leu Leu Ala Leu Ala Ser Leu Leu
 245 250 255
 Leu Arg Gly Leu Leu Pro
 260

4016

<210> 4426

<211> 71

<212> PRT

<213> Homo sapiens

<400> 4426

Gln Leu Lys His Val Phe Ser Gln Glu Lys Met Thr Val Leu Met Met
 1 5 10 15

Tyr Leu Met Asn Leu Asn Phe Lys Ser Gly Ala Ala Asn Trp Lys Glu
 20 25 30

Asp Leu Trp Cys Phe Lys Leu Leu Trp Thr Leu Leu Arg Asn Leu Glu
 35 40 45

Pro Met Glu Pro Leu Phe Ile Ala Met Gln Ile Thr Ile Leu Asn Glu
 50 55 60

Cys Phe Leu Lys Ile Lys Tyr
 65 70

<210> 4427

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4427

Ser Leu Lys Pro Ser Glu Lys Asn Ile Phe Thr Leu Phe Met Val Ala
 1 5 10 15

Thr Ala Ala Ile Cys Ile Leu Leu Asn Xaa Val Glu Xaa Ile Tyr Leu
 20 25 30

Xaa Ser Lys Arg Cys His Glu Cys Leu Ala Ala Arg Lys Ala Gln Ala

4017

	35		40		45														
Met	Cys	Thr	Gly	His	His	Pro	His	Gly	Thr	Thr	Ser	Ser	Cys	Lys	Gln				
	50					55					60								
Asp	Asp	Leu	Leu	Ser	Gly	Asp	Leu	Ile	Phe	Leu	Gly	Ser	Asp	Ser	His				
	65				70					75					80				
Pro	Pro	Leu	Leu	Pro	Asp	Arg	Pro	Arg	Asp	His	Val	Lys	Lys	Thr	Ile				
				85				90						95					

Leu

<210> 4428

<211> 353

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4428

Val	Cys	Ala	Val	Leu	His	Leu	Gly	Leu	Leu	Leu	Ala	Ala	Trp	Pro	His
1				5				10						15	

Xaa	Ala	Glu	Pro	Phe	Pro	Leu	His	Pro	Leu	Pro	Ala	Pro	Gly	Pro	Ala
			20					25					30		

Pro	Gly	Thr	Pro	Ser	Asp	Xaa	His	Pro	Leu	Gln	Pro	Trp	Gly	Ser	Leu
			35					40				45			

4018

Arg Val Ala Ala Lys Ala Xaa Cys Leu Ser Ala Ser Ala Leu Ala Val
 50 55 60

Ile Ala His Val Leu Cys Cys Cys Ser Val Xaa Thr Met Ser Lys Ser
 65 70 75 80

Leu Lys Lys Leu Val Glu Glu Ser Arg Glu Lys Asn Gln Pro Glu Val
 85 90 95

Asp Met Ser Asp Arg Gly Ile Ser Asn Met Leu Asp Val Asn Gly Leu
 100 105 110

Phe Thr Leu Ser His Ile Thr Gln Leu Val Leu Ser His Asn Lys Leu
 115 120 125

Thr Met Val Pro Pro Asn Ile Ala Glu Leu Lys Asn Leu Glu Val Leu
 130 135 140

Asn Phe Phe Asn Asn Gln Ile Glu Glu Leu Pro Thr Gln Ile Ser Ser
 145 150 155 160

Leu Gln Lys Leu Lys His Leu Asn Leu Gly Met Asn Arg Leu Asn Thr
 165 170 175

Leu Pro Arg Gly Phe Gly Ser Leu Pro Ala Leu Glu Val Leu Asp Leu
 180 185 190

Thr Tyr Asn Asn Leu Ser Glu Asn Ser Leu Pro Gly Asn Phe Phe Tyr
 195 200 205

Leu Thr Thr Leu Arg Ala Leu Tyr Leu Ser Asp Asn Asp Phe Glu Ile
 210 215 220

Leu Pro Pro Asp Ile Gly Lys Leu Thr Lys Leu Gln Ile Leu Ser Leu
 225 230 235 240

Arg Asp Asn Asp Leu Ile Ser Leu Pro Lys Glu Ile Gly Glu Leu Thr
 245 250 255

Gln Leu Lys Glu Leu His Ile Gln Gly Asn Arg Leu Thr Val Leu Pro
 260 265 270

Pro Glu Leu Gly Asn Leu Asp Leu Thr Gly Gln Lys Gln Val Phe Lys
 275 280 285

Ala Glu Asn Asn Pro Trp Val Thr Pro Ile Ala Asp Gln Phe Gln Leu
 290 295 300

Gly Val Ser His Val Phe Glu Tyr Ile Arg Ser Glu Thr Tyr Lys Tyr
 305 310 315 320

4019

Leu Tyr Gly Arg His Met Gln Ala Asn Pro Glu Pro Pro Lys Lys Asn
325 330 335

Asn Asp Lys Ser Lys Lys Ile Ser Arg Lys Pro Leu Ala Ala Lys Asn
340 345 350

Arg

<210> 4429

<211> 45

<212> PRT

<213> Homo sapiens

<400> 4429

Gly Thr Arg Gln Asn Gly Pro Ala Ser His Ser Arg Ala Leu Val Gly
1 5 10 15

Ile Cys Thr Gly His Ser Asn Pro Gly Glu Asp Ala Arg Asp Gly Asp
20 25 30

Ala Glu Glu Val Arg Glu Leu Gly Thr Val Glu Glu Asn
35 40 45

<210> 4430

<211> 120

<212> PRT

<213> Homo sapiens

<400> 4430

Phe Leu His Leu Pro Ala Ile Phe Ser Gln Thr Phe Leu Arg Val Arg
1 5 10 15

Ala Asn Arg Gln Thr Arg Leu Asn Ala Arg Ile Gly Lys Met Lys Arg
20 25 30

Arg Lys Gln Asp Glu Gly Gln Arg Glu Gly Ser Cys Met Ala Glu Asp
35 40 45

Asp Ala Val Asp Ile Glu His Glu Asn Asn Asn Arg Phe Glu Glu Tyr
50 55 60

Glu Trp Cys Gly Gln Lys Arg Ile Arg Ala Thr Thr Leu Leu Glu Gly
65 70 75 80

Gly Phe Arg Gly Ser Gly Phe Ile Met Cys Ser Gly Lys Glu Asn Pro
85 90 95

4020

Asp Ser Asp Ala Asp Leu Asp Val Asp Gly Asp Asp Thr Leu Glu Tyr
 100 105 110

Gly Glu Ala Thr Ile His Arg Gly
 115 120

<210> 4431

<211> 244

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (173)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (212)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (221)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (232)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4431

Leu Leu Asp Arg Tyr Arg Glu Leu Gln Leu Ser Thr Glu Ser Lys Val
 1 5 10 15

Thr Glu Phe Leu His Gln Ser Lys Leu Lys Ser Phe Glu Ser Glu Arg
 20 25 30

Val Gln Leu Leu Gln Glu Glu Thr Ala Arg Asn Leu Thr Gln Cys Gln
 35 40 45

Leu Glu Cys Glu Lys Tyr Gln Lys Lys Leu Glu Val Leu Thr Lys Glu
 50 55 60

4021

Phe Tyr Xaa Leu Gln Ala Ser Ser Glu Lys Arg Ile Thr Glu Leu Gln
 65 70 75 80
 Ala Gln Asn Ser Glu His Gln Ala Arg Leu Asp Ile Tyr Glu Lys Leu
 85 90 95
 Glu Lys Glu Leu Asp Glu Ile Ile Met Gln Thr Ala Glu Ile Glu Asn
 100 105 110
 Glu Asp Glu Ala Glu Arg Val Leu Phe Ser Tyr Gly Tyr Gly Ala Asn
 115 120 125
 Val Pro Thr Thr Ala Lys Arg Arg Leu Lys Gln Ser Val His Leu Ala
 130 135 140
 Arg Arg Val Leu Gln Leu Glu Lys Gln Asn Ser Leu Ile Leu Lys Asp
 145 150 155 160
 Leu Glu His Arg Lys Asp Gln Val Thr Gln Leu Ser Xaa Glu Leu Asp
 165 170 175
 Arg Ala Asn Ser Leu Leu Asn Gln Thr Gln Gln Pro Tyr Arg Tyr Leu
 180 185 190
 Ile Glu Ser Val Arg Gln Arg Asp Ser Lys Ile Asp Ser Leu Thr Glu
 195 200 205
 Ser Ile Ala Xaa Leu Gly Glu Arg Met Ser Ala Thr Xaa Asn Lys Glu
 210 215 220
 Lys Ser Ala Leu Leu Gln Thr Xaa Gly Ile Lys Met Ala Leu Gly Phe
 225 230 235 240
 Arg Thr Asn Phe

<210> 4432

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4022

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4432

Ser	Ser	Cys	Cys	Ala	Ser	Leu	Pro	Pro	Thr	Arg	Gly	Glu	Val	Ser	Ala
1				5					10					15	

Xaa	Ser	Leu	Leu	Pro	Pro	Leu	Pro	Pro	Leu	Pro	Pro	Trp	Thr	Ile	Ser
		20				25						30			

Leu	Phe	Pro	Leu	Cys	Ser	Trp	Xaa	Ala	Gln	Leu	Cys	Met	Cys	Val	Trp
	35					40					45				

Gly	Val	Gly	Val	Gly	Ser	Gly	Leu	Ser	Gly	Phe	Gly	Arg	Gly	Leu	Gly
	50				55				60						

Arg	Val	Arg	Gly	Gly	Trp	Arg	Met	Lys	Ser	Pro	Thr	Pro	Phe	Ser	Ser
65					70				75					80	

Ser	Arg	Pro	Gln	Lys	Pro	Gly	Lys	Gly	Arg	Val	Pro	Thr	Leu	Gly	Xaa
			85					90						95	

<210> 4433

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4433

Asn	Arg	Ser	Phe	Phe	Val	Ser	Pro	Phe	Lys	Ser	Thr	Gly	Phe	Lys	Arg
1				5					10					15	

Gly	Lys	Cys	Ile	His	Arg	Pro	Gln	Cys	Leu	Ala	Phe	Ser	Ser	Ala	Ser
		20					25					30			

Thr	Trp	Ser	Thr	Gly	Leu	Asp	Ala	Gln	Thr	Tyr	Leu	Gly	Asn	Tyr	Phe
	35						40					45			

4023

Gly Arg Cys Leu Ser Leu Tyr Arg Asn Cys Ser Trp Tyr Phe Ile Leu
 50 55 60

Leu Tyr Ile Tyr Ser Thr Cys Pro Leu Val Phe Asn Tyr Xaa Gln Ser
 65 70 75 80

Leu Phe Arg Ser Lys Asn
 85

<210> 4434

<211> 254

<212> PRT

<213> Homo sapiens

<400> 4434

Lys Ala Leu Asn Val Val Gln Ser Val Leu Gln Ile Asn Leu Ser Asn
 1 5 10 15

Ser Thr Asn Arg Gly Ser Val Ala Ala Lys Lys Phe Lys Asp Ile Ile
 20 25 30

His Tyr Asp Pro Thr Lys Gln Asp His Ala Thr Tyr Glu Arg Lys Arg
 35 40 45

Asp Asp Lys Pro Lys Glu Ser Lys Ala Lys Arg Lys Lys Lys Arg Glu
 50 55 60

Glu Ala Glu Lys Leu Pro Glu Val Ser Lys Glu Met Tyr Tyr Asn Ile
 65 70 75 80

Ala Met Asp Leu Lys Glu Ile Phe Gln Thr Thr Lys Tyr Thr Ser Glu
 85 90 95

Lys Glu Glu Gly Thr Pro Trp Asn Glu Asp Cys Gly Lys Glu Lys Pro
 100 105 110

Glu Glu Ile Gln Asp Pro Ala Ala Leu Thr Ser Asp Ala Glu Gln Pro
 115 120 125

Ser Gly Phe Thr Phe Ser Phe Phe Asp Ser Asp Thr Lys Asp Ile Lys
 130 135 140

Glu Glu Thr Tyr Arg Val Glu Thr Val Lys Pro Gly Lys Ile Val Trp
 145 150 155 160

Gln Glu Asp Pro Arg Leu Gln Asp Ser Ser Ser Glu Glu Glu Asp Val
 165 170 175

4024

Thr Glu Glu Thr Asp His Arg Asn Ser Ser Pro Gly Glu Ala Ser Leu
 180 185 190
 Leu Glu Lys Glu Thr Thr Arg Phe Phe Phe Phe Ser Lys Asn Asp Glu
 195 200 205
 Arg Leu Gln Gly Ser Asp Leu Phe Trp Arg Gly Val Gly Ser Asn Met
 210 215 220
 Ser Arg Asn Ser Trp Glu Ala Arg Thr Thr Asn Leu Arg Met Asp Cys
 225 230 235 240
 Arg Lys Lys His Lys Asp Ala Lys Arg Lys Met Lys Pro Lys
 245 250

<210> 4435

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4435

Leu Leu Asn Leu Val Lys Ala Val Phe Gly Gln Ala Cys Ala Arg Gly
 1 5 10 15
 His Leu Glu Cys Ser Thr His Trp Gln Ala Ser Pro Ile Pro Ile His
 20 25 30
 Pro Gly Ser Pro Arg Leu Gly Trp Asp Ile Asn Val Gly Ile Gly Lys
 35 40 45
 Lys Tyr Phe Leu Phe Arg Gly Lys Gln Glu Glu Thr Leu Pro Glu Ser
 50 55 60
 Asp Phe Leu Val Ile Ser Ile Ser Thr Glu Xaa
 65 70 75

<210> 4436

<211> 47

<212> PRT

<213> Homo sapiens

<220>

4025

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4436

Lys Leu Ile Arg Asp Xaa Ala Thr Asp Ser Leu Arg Ser Pro Ala Leu
 1 5 10 15

Pro Leu Asn Lys Cys Trp Cys Ile Gln Met Val Lys Tyr Ser Ala Ala
 20 25 30

Ile Lys Gly Val Lys Thr Ala Ser Thr Tyr Leu Glu Ala His Leu
 35 40 45

<210> 4437

<211> 220

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4437

Gly Xaa Asp Thr Leu Glu Ile Gln Gln Gln Ala Leu Leu Arg Glu Gln
 1 5 10 15

Gln Lys Arg Leu Asn Arg Ile Lys Met Gln Glu Gly Ala Lys Val Asp
 20 25 30

Leu Asp Ala Ile Pro Ser Ala Lys Val Arg Glu Gln Arg Met Pro Arg
 35 40 45

Asp Asp Thr Ser Asp Phe Leu Lys Asn Ser Leu Leu Glu Ser Asp Ser
 50 55 60

Ala Phe Ile Gly Ala Tyr Gly Glu Thr Tyr Pro Ala Ile Glu Asp Asp
 65 70 75 80

Val Leu Pro Pro Pro Ser Gln Leu Pro Ser Ala Arg Glu Arg Arg Arg
 85 90 95

Asn Lys Trp Lys Gly Leu Asp Ile Asp Ser Ser Arg Pro Asn Val Ala
 100 105 110

Pro Asp Gly Leu Ser Leu Lys Ser Ile Ser Ser Val Asn Val Asp Glu
 115 120 125

4027

<210> 4440

<211> 57

<212> PRT

<213> Homo sapiens

<400> 4440

Leu Leu Glu Val Pro Glu Met Gly Leu Thr Phe Ile Lys Gln Ile Ala
 1 5 10 15

Tyr Tyr Asp Leu Ala Ala Ala Thr Val Gln Leu His Ile Asn Ser Thr
 20 25 30

Asp Gln Thr Ile Cys Ile Trp His His Leu Leu Thr His Asp Met Arg
 35 40 45

Leu Phe Cys Ile Asn Cys Tyr Asp Gly
 50 55

<210> 4441

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4441

Val Val Glu Tyr Arg Ala Val Asn Phe His Ala Phe Phe Pro Asp Ile
 1 5 10 15

Lys Phe Tyr Ser Lys Lys Ala Thr Ser Asp Cys Thr Lys Asn Ile Lys
 20 25 30

Ile His Ser Phe Tyr Lys Gly Val Asn Leu Asn Asn Val Ile Asp Trp
 35 40 45

Asn Met Lys Ile Asn Gln Ser Phe Lys Ser Phe Leu Ala Asn Asp Pro
 50 55 60

4028

Ile Leu Thr Pro Phe Leu Pro Arg Leu Glu Lys His Asn Val Phe Pro
 65 70 75 80

Pro Lys Val Xaa Asn Pro Arg Lys Ala Pro Val Ser Xaa Thr Asn Val
 85 90 95

<210> 4442

<211> 155

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4442

Asn Ser Ala Ser Gln Arg Ser Ser Ser Leu Pro Pro Ser Asn Arg Lys
 1 5 10 15

Ser Ser Thr Pro Lys Lys Thr Tyr Ser Glu Lys Ala Thr Asp Asn His
 20 25 30

Val Asn His Ser Ser Cys Pro Glu Pro Val Pro Asn Gly Val Lys Lys
 35 40 45

Val Ser Val Arg Thr Ala Trp Glu Lys Asn Lys Ser Val Ser Tyr Glu
 50 55 60

Gln Cys Lys Pro Val Ser Val Thr Pro Gln Gly Asn Asp Phe Glu Tyr
 65 70 75 80

Thr Ala Lys Ile Arg Thr Leu Ala Glu Thr Glu Arg Phe Phe Asp Glu
 85 90 95

Leu Thr Lys Glu Lys Asp Gln Ile Glu Ala Ala Leu Ser Arg Met Pro
 100 105 110

Ser Pro Gly Gly Arg Ile Thr Leu Gln Xaa Arg Leu Asn Gln Glu Ala
 115 120 125

4029

Leu Glu Asp Arg Leu Glu Gly Leu Ile Glu Asn Trp Gly Ser Xaa Arg
 130 135 140

Met Thr Leu Lys Asn Ser Met Phe Cys Ala Pro
 145 150 155

<210> 4443

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4443

Ile Arg Glu Thr Phe Ser Ile Tyr Leu Phe Val Leu Pro Ala Trp Glu
 1 5 10 15

Ser Asp Ser Thr Lys Tyr Phe Pro Ala Gly Trp Gly Ser Val Ser Gln
 20 25 30

Arg Asn His Pro Phe Pro Thr Phe Arg Leu Ile Leu Tyr Pro Ser Ile
 35 40 45

Xaa Pro Val Leu Met Glu Ala Lys Asp Asn Pro Arg Val Phe Ile Gly
 50 55 60

Asn Ser Leu Glu Leu Cys Ala Ile Val Phe Val Val Leu Leu Pro Phe
 65 70 75 80

Phe Phe Leu Asn Ile Tyr Val Gly Asn Ser Ile Cys Xaa Gly Ile Leu
 85 90 95

Xaa

4030

<210> 4444

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4444

Thr Glu Thr Cys Phe Ala Trp Trp Met Ser Ala Ser Ser Pro Arg Arg
 1 5 10 15

Pro Ser Ser Glu Thr Pro Ala Ala Pro Thr Cys Phe Leu Arg Ser Ser
 20 25 30

Ala Ala Ala Val Thr Ser Ala Ala Thr Trp Xaa Leu Cys Lys Asp Ser
 35 40 45

Ser Phe Ser Glu Asp Gly Ala Val Leu Pro Gln Trp Leu Cys Ser Asn
 50 55 60

Cys Gln Ala Pro Tyr Asp Ser Ser Ala Ile Glu Met Thr Leu Val Glu
 65 70 75 80

Val Leu Gln Lys Lys Leu Met Ala Phe Thr Leu Gln Asp Leu Val Cys
 85 90 95

Leu Lys Cys Arg Gly Val Lys Glu Thr Ser Met Pro Val Tyr Cys Ser
 100 105 110

Cys Ala Gly Asp Phe Ala Leu Thr Ile His Thr Gln Val Phe Met Glu
 115 120 125

Gln Ile Gly Ile Phe Arg Asn Ile Ala Gln His Tyr Gly Met Ser Tyr
 130 135 140

Leu Leu Glu Thr Leu Glu Trp Leu Leu Gln Lys Asn Pro Gln Leu Gly
 145 150 155 160

His

<210> 4445

<211> 112

<212> PRT

<213> Homo sapiens

4031

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4445

Asn	Val	Phe	Val	Val	Thr	Asp	Phe	Gln	Asp	Ser	Val	Phe	Asn	Asp	Leu
1				5					10					15	

Tyr	Lys	Ala	Asp	Cys	Arg	Val	Ile	Gly	Pro	Pro	Val	Val	Leu	Asn	Cys
			20					25					30		

Ser	Gln	Lys	Gly	Glu	Pro	Leu	Pro	Phe	Ser	Cys	Arg	Pro	Leu	Tyr	Cys
		35					40					45			

Thr	Ser	Met	Met	Asn	Leu	Val	Leu	Cys	Phe	Thr	Gly	Phe	Arg	Lys	Lys
	50					55					60				

Glu	Glu	Leu	Val	Arg	Leu	Val	Thr	Leu	Val	His	His	Xaa	Gly	Gly	Val
65					70					75					80

Ile	Arg	Lys	Asp	Phe	Asn	Ser	Lys	Xaa	Thr	His	Leu	Val	Ala	Ile	Val
				85					90					95	

His	Lys	Glu	Lys	Ile	Gln	Gly	Cys	Cys	Glu	Ser	Arg	Tyr	Ser	Ile	Met
			100					105					110		

<210> 4446

<211> 254

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4446

Ala	Glu	Asp	Pro	Ala	Gly	Gly	Leu	Ala	Gly	Gln	Asp	Thr	Met	Phe	Ala
1					5				10					15	

4032

Arg Gly Leu Lys Arg Lys Cys Val Gly His Glu Glu Asp Val Glu Gly
 20 25 30
 Ala Leu Ala Gly Leu Lys Thr Val Ser Ser Tyr Ser Leu Gln Arg Gln
 35 40 45
 Ser Leu Leu Asp Met Ser Leu Val Lys Leu Gln Leu Cys His Met Leu
 50 55 60
 Val Glu Pro Asn Leu Cys Arg Ser Val Leu Ile Ala Asn Thr Val Arg
 65 70 75 80
 Gln Ile Gln Glu Glu Met Thr Gln Asp Gly Thr Trp Arg Thr Val Ala
 85 90 95
 Pro Gln Ala Ala Glu Arg Ala Pro Xaa Asp Arg Leu Val Ser Thr Glu
 100 105 110
 Ile Leu Cys Arg Ala Ala Trp Gly Gln Glu Gly Ala His Pro Ala Pro
 115 120 125
 Gly Leu Gly Asp Gly His Thr Gln Gly Pro Val Ser Asp Leu Cys Pro
 130 135 140
 Val Thr Ser Ala Gln Ala Pro Arg His Leu Gln Ser Ser Ala Trp Glu
 145 150 155 160
 Met Asp Gly Pro Arg Glu Asn Arg Gly Ser Phe His Lys Ser Leu Asp
 165 170 175
 Gln Ile Phe Glu Thr Leu Glu Thr Lys Asn Pro Ser Cys Met Glu Glu
 180 185 190
 Leu Phe Ser Asp Val Asp Ser Pro Tyr Tyr Asp Leu Asp Thr Val Leu
 195 200 205
 Thr Gly Met Met Gly Gly Ala Arg Pro Gly Pro Cys Glu Gly Leu Glu
 210 215 220
 Gly Leu Ala Pro Ala Thr Pro Gly Pro Ser Ser Ser Cys Lys Ser Asp
 225 230 235 240
 Leu Gly Glu Leu Asp His Val Val Glu Ile Leu Val Glu Thr
 245 250

<210> 4447

<211> 169

<212> PRT

4033

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4447

Ser Lys Val Lys Gln Thr Glu Asn Cys Gly Gly Phe Val Gly Val Gln
1 5 10 15

Leu Arg Asn Met Ala Gln Glu Thr Asn His Ser Gln Val Pro Met Leu
20 25 30

Cys Ser Thr Gly Cys Gly Phe Tyr Gly Asn Pro Arg Thr Asn Gly Met
35 40 45

Cys Ser Val Cys Tyr Lys Glu His Leu Gln Arg Gln Asn Ser Ser Asn
50 55 60

Gly Arg Ile Ser Pro Pro Ala Thr Ser Val Ser Ser Leu Ser Glu Ser
65 70 75 80

Leu Pro Val Gln Cys Thr Asp Gly Ser Val Pro Glu Ala Gln Ser Ala
85 90 95

Leu Xaa Ser Thr Ser Ser Ser Met Gln Pro Ser Pro Val Ser Asn Gln
100 105 110

Ser Leu Leu Ser Glu Ser Val Ala Ser Ser Gln Leu Asp Ser Thr Ser
115 120 125

Val Asp Lys Ala Val Pro Glu Thr Glu Asp Val Gln Ala Ser Val Ser
130 135 140

Asp Thr Ala Gln Gln Pro Ser Glu Xaa Gln Ser Lys Ser Leu Xaa Lys
145 150 155 160

Pro Lys Gln Lys Lys Glu Ser Leu Val
165

4034

<210> 4448

<211> 374

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4448

Ser	Pro	Ser	Ser	Thr	Ala	Ala	Thr	Ser	Ala	Phe	Arg	Ile	Ala	Ser	Ala
1				5				10						15	

Cys	Leu	Asp	Glu	Leu	Ser	Cys	Glu	Xaa	Leu	Leu	Ala	Gly	Ala	Gly	Gly
			20					25					30		

Ala	Gly	Ala	Gly	Ala	Xaa	Pro	Gly	Thr	Ala	Ser	Pro	Pro	Thr	Gly	Ser
		35					40					45			

Val	Pro	Gly	Asp	Pro	Val	Arg	Ile	His	Cys	Asn	Ile	Thr	Glu	Ser	Tyr
	50					55					60				

Pro	Ala	Val	Pro	Pro	Ile	Trp	Ser	Val	Glu	Ser	Asp	Asp	Pro	Asn	Leu
65					70					75					80

Ala	Ala	Val	Leu	Glu	Arg	Leu	Val	Asp	Ile	Lys	Lys	Gly	Asn	Thr	Leu
				85					90					95	

Leu	Leu	Gln	His	Leu	Lys	Arg	Ile	Ile	Ser	Asp	Leu	Cys	Lys	Leu	Tyr
		100					105						110		

Asn	Leu	Pro	Gln	His	Pro	Asp	Val	Glu	Met	Leu	Asp	Gln	Pro	Leu	Pro
		115					120					125			

Ala	Glu	Gln	Cys	Thr	Gln	Glu	Asp	Val	Ser	Ser	Glu	Asp	Glu	Asp	Glu
	130					135					140				

Glu	Met	Pro	Glu	Asp	Thr	Glu	Asp	Leu	Asp	His	Tyr	Glu	Met	Lys	Glu
145					150					155					160

Glu	Glu	Pro	Ala	Glu	Gly	Lys	Lys	Ser	Glu	Asp	Asp	Gly	Ile	Gly	Lys
				165					170					175	

4035

Glu Asn Leu Ala Ile Leu Glu Lys Ile Lys Lys Asn Gln Arg Gln Asp
 180 185 190
 Tyr Leu Asn Gly Ala Val Ser Gly Ser Val Gln Ala Thr Asp Arg Leu
 195 200 205
 Met Lys Glu Leu Arg Asp Ile Tyr Arg Ser Gln Ser Phe Lys Gly Gly
 210 215 220
 Asn Tyr Ala Val Glu Leu Val Asn Asp Ser Leu Tyr Asp Trp Asn Val
 225 230 235 240
 Lys Leu Leu Lys Val Asp Gln Asp Ser Ala Leu His Asn Asp Leu Gln
 245 250 255
 Ile Leu Lys Glu Lys Glu Gly Ala Asp Phe Ile Leu Leu Asn Phe Ser
 260 265 270
 Phe Lys Asp Asn Phe Pro Phe Asp Pro Pro Phe Val Arg Val Val Ser
 275 280 285
 Pro Val Leu Ser Gly Gly Tyr Val Leu Gly Gly Gly Ala Ile Cys Met
 290 295 300
 Glu Leu Leu Thr Lys Gln Gly Trp Ser Ser Ala Tyr Ser Ile Glu Ser
 305 310 315 320
 Val Ile Met Gln Ile Ser Ala Thr Leu Val Lys Gly Lys Ala Arg Val
 325 330 335
 Gln Phe Gly Ala Asn Lys Ser Gln Tyr Ser Leu Thr Arg Ala Gln Gln
 340 345 350
 Ser Tyr Lys Ser Leu Val Gln Ile His Glu Lys Asn Gly Trp Tyr Thr
 355 360 365
 Pro Pro Lys Glu Asp Gly
 370

<210> 4449

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

4036

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4449

Ala Glu Glu Val Tyr Ala Gln Leu Gln Lys Met Leu Leu Glu Gln Gln
 1 5 10 15

Glu Lys Cys Leu Leu Phe Ser Lys Gln Phe Met His Gln Gly Asn Val
 20 25 30

Ala Glu Thr Thr Arg Phe Glu Lys Leu Ala Gln Asp Arg Lys Lys Gln
 35 40 45

Leu Glu Ile Leu Gln Leu Ala Gln Ala Gln Gly Leu Xaa Pro Pro Thr
 50 55 60

His His Phe Glu Leu Lys Thr Phe Xaa Thr Val Arg Ile Phe Ser Gln
 65 70 75 80

Leu Asn Ser Thr Glu Met His Leu Ile Ile Val Arg Gly Met Asn Leu
 85 90 95

Pro Ala Pro Pro Gly Val Thr Pro Asp Asp Leu Asp Ala Phe Val Arg
 100 105 110

Phe Glu Phe His Tyr Pro Asp Ser Asp Gln Ala Gln Lys Ser Lys Thr
 115 120 125

Ala Val Val Asn Asn Thr Asn Ser Pro Xaa Leu Ile Thr Leu Gln Leu
 130 135 140

Asn Ser
 145

<210> 4450

<211> 61

<212> PRT

<213> Homo sapiens

<400> 4450

Ile Met Lys Glu Ser Ser Ser Val Leu Ala Lys Cys Ser Ser Ile Ala
 1 5 10 15

4037

Gly Tyr Ile Gln Trp Ser Ser Ile Asn Ser Tyr Leu Ser Gly Leu Asn
 20 25 30

Gln Asn Cys Val Ser Leu Asn Ser Tyr His Thr Glu Gly Ala Ser Gln
 35 40 45

Ile Thr Ile Phe Leu Ser Ala Val Phe Leu Gln Lys Ser
 50 55 60

<210> 4451

<211> 29

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4451

Lys Thr Met Met Met Thr Phe Lys Lys Lys Lys Lys Lys Lys Lys Lys
 1 5 10 15

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa
 20 25

<210> 4452

<211> 108

<212> PRT

<213> Homo sapiens

<400> 4452

Asp His Leu Asp Leu Thr Lys Gly Thr Ile Lys Trp Cys Gln Val Leu
 1 5 10 15

Gly Ser Arg Arg Val Tyr Lys Lys Lys Met Asn Lys Asp Phe Thr Tyr
 20 25 30

Trp Gly Ser Gly Ile Thr Gly Cys Leu Asp Cys Pro Ala Thr Gln Leu
 35 40 45

Pro Pro Ile Lys Ser Phe Ile Thr Leu Gln Glu Gly Pro Asp Ala Ser
 50 55 60

Ile Ile Ser Thr Pro Cys Phe Ser Val Ile Ser Phe Glu Val Ala Lys
 65 70 75 80

4038

Asn Gly Ser Gln Lys Lys Met Leu Arg Leu Phe Ser Ser Ile Tyr Ser
85 90 95

Cys Tyr Phe Ala Glu Asp Arg Val Asn Phe Phe Ser
100 105

<210> 4453

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4453

Ile Ser Gly Lys Trp Leu Thr Glu Arg Thr Ile Arg Cys Val Tyr Ile
1 5 10 15

Thr Ser Tyr Ser Leu Phe Leu Thr Ala Leu Met Leu Trp His Cys Tyr
20 25 30

Xaa His Ile Tyr Val Phe Leu Ile Tyr Ser Ser Asp Ser Phe Asn Phe
35 40 45

Leu Ser Ser Leu Ser Ile Arg Cys Ala His Leu Leu Cys Gln Val Glu
50 55 60

Val

65

<210> 4454

<211> 293

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

4039

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (242)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (243)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4454

Val	Pro	Gly	Pro	Ala	Arg	Gly	Leu	Gly	Arg	Leu	Arg	Arg	Gly	Val
1				5				10					15	

Xaa	Val	Arg	Gly	Arg	Arg	Thr	Xaa	Ala	Lys	Val	Ala	Ile	Lys	Xaa	Leu
			20					25					30		

Tyr	Arg	Pro	Phe	Gln	Ser	Glu	Leu	Phe	Ala	Lys	Arg	Ala	Tyr	Arg	Glu
			35				40					45			

Leu	Arg	Leu	Leu	Lys	His	Met	Arg	His	Glu	Asn	Val	Ile	Gly	Leu	Leu
		50				55					60				

Asp	Val	Phe	Thr	Pro	Asp	Glu	Thr	Leu	Asp	Asp	Phe	Thr	Asp	Phe	Tyr
	65					70				75					80

Leu	Val	Met	Pro	Phe	Met	Gly	Thr	Asp	Leu	Gly	Lys	Leu	Met	Lys	His
				85					90					95	

Xaa	Lys	Leu	Gly	Glu	Asp	Arg	Ile	Gln	Phe	Leu	Val	Tyr	Gln	Met	Xaa
			100					105					110		

Lys	Gly	Leu	Arg	Tyr	Ile	His	Ala	Ala	Gly	Ile	Ile	His	Arg	Asp	Leu
		115					120						125		

4040

Lys Pro Gly Asn Leu Ala Val Asn Glu Asp Cys Glu Leu Lys Ile Leu
 130 135 140

Asp Phe Gly Leu Ala Arg Gln Ala Asp Ser Glu Met Thr Gly Tyr Val
 145 150 155 160

Val Thr Arg Trp Tyr Arg Ala Pro Glu Val Ile Leu Asn Trp Met Arg
 165 170 175

Tyr Thr Gln Thr Val Asp Ile Trp Ser Val Gly Cys Ile Met Ala Glu
 180 185 190

Met Ile Thr Gly Lys Thr Leu Phe Lys Gly Ser Asp His Leu Asp Gln
 195 200 205

Leu Lys Glu Ile Met Lys Val Thr Gly Thr Pro Pro Ala Glu Phe Val
 210 215 220

Gln Arg Leu Gln Ser Asp Glu Ala Lys Asn Tyr Met Lys Gly Leu Pro
 225 230 235 240

Glu Xaa Xaa Glu Glu Gly Phe Cys Leu Tyr Pro Asp Gln Cys Lys Pro
 245 250 255

Ser Gly Cys Glu Pro Pro Gly Glu Asp Ala Gly Ala Gly Arg Gly Ala
 260 265 270

Ala Gly Asp Gly Arg Arg Gly Ala Gly Pro Ser Leu Leu Arg Val Pro
 275 280 285

Ala Arg His Gly Arg
 290

<210> 4455

<211> 82

<212> PRT

<213> Homo sapiens

<400> 4455

Thr Arg Gly Leu His Leu Thr Leu Ser Thr Tyr Gln Arg Asn Thr Trp
 1 5 10 15

Gly Asp Phe Leu Glu Ala Ile Leu Pro Leu Ala Val Gln Ala Ala Met
 20 25 30

Glu Glu Asn Val Glu Phe Arg Arg Gly Leu Pro Arg Asp Phe Met Asp
 35 40 45

Tyr Met Gly Ala Gln His Ser Asp Ser Lys Asp Pro Gly Lys Asn Arg

4041

50 55 60
 Phe His Gly Glu Gly Ala Gly Leu Gly Cys Pro Pro Gly Thr Leu Cys
 65 70 75 80
 Ser Cys

 <210> 4456
 <211> 72
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 4456
 Xaa Xaa Phe Leu Ser Arg Leu Pro Phe Met Trp Val Lys Asp Lys Val
 1 5 10 15
 Glu Asn Thr Leu Leu Tyr Leu Val Ser Arg Val Asn Leu Met Ser Ser
 20 25 30
 Ser Leu Cys Phe Glu Ile Phe Trp Asn Val Ile Xaa Asn Tyr Xaa Arg
 35 40 45
 Trp Ser Met Tyr Val Leu Gly Leu Val Leu Met Phe Asn Met His Tyr
 50 55 60
 Leu Ile Gln Ser Ser Gln Gln Ser
 65 70

4042

<210> 4457

<211> 38

<212> PRT

<213> Homo sapiens

<400> 4457

Asp His Val Leu Cys Arg Asp Met Asp Glu Ala Gly Thr Ile Ile Leu
 1 5 10 15

Ser Lys Leu Thr Glu Glu Gln Glu Thr Lys His His Met Phe Ser Leu
 20 25 30

Val Ser Gly Thr Glu Gln
 35

<210> 4458

<211> 114

<212> PRT

<213> Homo sapiens

<400> 4458

Pro Arg Phe Cys Gly Ala Leu Arg His Ser Leu Asn Ala Thr Leu Thr
 1 5 10 15

Pro Arg Leu Glu Asn Pro Val Leu Met Trp Trp Ala Gly Pro Leu Leu
 20 25 30

Met Glu Asp Gly Gly Asp Gly Val Val Leu Lys Gly Ser Val Val Leu
 35 40 45

Glu Val Tyr Thr Pro Leu Arg Thr Ala Cys Gln Glu Pro Gln Ser Ser
 50 55 60

Phe Thr Ser Ala Lys Ala Glu Arg Glu Arg Thr Trp Glu Ala Phe Cys
 65 70 75 80

Ser Leu Ser Tyr Pro Ser Ile Asn Ser Ile Ile Val Asp Ala Lys Gly
 85 90 95

Asp Gly Asp Val Pro Ser Thr Val Val Ala Val Thr Thr Leu Thr Ser
 100 105 110

Leu Ser

4043

<210> 4459
 <211> 47
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (43)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4459
 Asn Gln Asn Tyr Xaa Trp Glu Lys Asn Lys Phe Ile Tyr Glu Asn Val
 1 5 10 15
 Lys Ile Ile Leu Lys Val Leu Phe Ser Asn Lys Met Glu Lys Leu Val
 20 25 30
 Lys Xaa Xaa Lys Lys Lys Lys Lys Lys Arg Xaa Pro Leu Xaa Gly
 35 40 45

<210> 4460
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 4460
 Ser Ala Leu Phe Ser Leu Ala Glu Asp Lys Gly Ile His Ala Ala Pro
 1 5 10 15

4044

Arg Phe Leu Val Ala Arg Leu Arg Thr Lys Gln Leu Arg Ser Ser His
 20 25 30

Ser Asp Pro Asn Val Leu Thr Val Leu Phe Leu Ile Thr Val Thr Leu
 35 40 45

Lys Val Gln Ala Lys Cys Cys Gln Thr Pro Trp Leu Lys Gln Trp Arg
 50 55 60

Val Met Gly Lys Ala Val Glu Gly Pro Gln Pro Thr His Trp Leu Lys
 65 70 75 80

Leu Pro Pro Thr Ala Thr Met Asn Pro Thr Ala Val Tyr Ala Pro Ile
 85 90 95

Phe Leu Phe Leu Tyr Leu His Pro His Asp Ser Gln Cys Trp Ile Phe
 100 105 110

Leu His Glu
 115

<210> 4461

<211> 106

<212> PRT

<213> Homo sapiens

<400> 4461

Gln Ser Met Val Val Ser His Tyr Ala Arg Pro Asp Leu Pro Leu Leu
 1 5 10 15

Met Val Ile Ser Cys Glu Ser Phe Phe Leu Pro Leu His Ser Phe Tyr
 20 25 30

Ser Val Tyr Ser Pro Met Pro His Pro Lys Ser Cys Thr Val Asn Trp
 35 40 45

Pro Val Lys Gly Thr Pro Thr Phe Lys Gln Gly Arg Gln Asp Thr Thr
 50 55 60

Gly Arg Arg Leu Ile Ala Gln Thr Leu Asp Cys Ser Gly Trp Asp Gln
 65 70 75 80

Ile Leu Ala Pro Leu Leu Ala Ser Cys Val Ala Leu Gly Lys Leu Leu
 85 90 95

Asn Leu Ser Gly Pro Gln Phe Leu Pro Leu
 100 105

4045

<210> 4462

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4462

Phe	Tyr	Tyr	Phe	Ser	Leu	Phe	Lys	Xaa	Glu	Xaa	Gln	Ile	Glu	Ser	Xaa
1				5				10					15		

Gln	Ile	Leu	Gln	Met	Thr	Gly	Ile	Phe	Val	Ser	Xaa	Leu	Ser	Phe	Cys
		20					25					30			

Val	Phe	Phe	Leu	Asn	Lys	Ile	Phe	Arg	Gly	Asn	Ala	Phe	Thr	Glu	Lys
			35				40					45			

Lys

<210> 4463

<211> 157

<212> PRT

<213> Homo sapiens

<400> 4463

Ile	Arg	His	Glu	Ser	Lys	Arg	Asn	Gln	Val	Ser	Tyr	Val	Arg	Pro	Ala
1				5				10				15			

Glu	Pro	Ala	Phe	Leu	Ala	Arg	Phe	Lys	Glu	Arg	Val	Gly	Tyr	Arg	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4046

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                20      25      30
Gly Pro Thr Val Glu Thr Lys Arg Ile Gln Pro Gln Pro Pro Asp Glu
      35              40              45
Asp Gly Asp His Ser Asp Lys Glu Asp Glu Gln Pro Gln Val Val Val
      50              55              60
Leu Lys Lys Gly Asp Leu Ser Val Glu Glu Val Met Lys Ile Lys Ala
      65              70              75              80
Glu Ile Lys Ala Ala Lys Ala Asp Glu Glu Pro Thr Pro Ala Asp Gly
              85              90              95
Arg Ile Ile Tyr Arg Lys Pro Val Lys His Pro Ser Asp Glu Lys Tyr
      100              105              110
Ser Gly Leu Thr Ala Ser Ser Lys Lys Lys Lys Pro Asn Glu Asp Glu
      115              120              125
Val Asn Gln Asp Ser Val Lys Lys Asn Ser Gln Lys Gln Ile Lys Asn
      130              135              140
Ser Ser Leu Leu Ser Phe Asp Asn Glu Asp Glu Asn Glu
      145              150              155

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<210> 4464

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4464

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Asn Tyr Asp Cys Phe Xaa Xaa Ser Pro Phe Gly Thr Arg Ser Phe Gln
  1              5              10              15

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Leu Lys Gly Arg Gly Asn Ile Tyr Leu Lys Ser Ser Ile His Glu Arg
      20              25              30

```

```

Lys Arg Met Glu Thr Met Ser Ser Val Leu Leu Leu Pro Lys His Pro

```

4047

35						40						45						
Cys	Met	Cys	Val	His	Val	Cys	Trp	Arg	Val	Cys	Val	Cys	Met	His	Ile			
50						55						60						
Ser	Lys	Cys	Val	Phe	Ala	Cys	Val	Cys	Trp	Gly	Val	Tyr	Val	Ile	Trp			
65						70						75						80
Val	Phe	Val	Tyr	Leu	Cys	Tyr	Tyr	Ser	Pro	Leu	Ala	Leu	Phe					
85						90												

<210> 4465

<211> 197

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

$\langle 222 \rangle$ (124)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4465

Arg	Trp	Ala	Arg	Val	Glu	Ala	Ala	Val	Met	Glu	Gly	Ala	Gly	Ala	Gly
1				5					10					15	
Ser	Gly	Phe	Arg	Lys	Glu	Leu	Val	Ser	Arg	Leu	Leu	His	Leu	His	Phe
			20					25					30		
Lys	Asp	Asp	Lys	Thr	Lys	Val	Ser	Gly	Asp	Ala	Leu	Gln	Leu	Met	Val
		35					40					45			
Glu	Leu	Leu	Lys	Val	Phe	Val	Val	Glu	Ala	Ala	Val	Arg	Gly	Val	Arg
	50					55					60				
Gln	Ala	Gln	Ala	Glu	Asp	Ala	Leu	Arg	Val	Asp	Val	Asp	Gln	Leu	Glu
65					70					75					80
Lys	Val	Leu	Arg	Ser	Cys	Ser	Gly	Leu	Leu	Gly	Ile	Ser	Ala	Val	Ala
				85					90					95	

4048

Xaa Ala Thr Pro Arg Gly Ala Pro Gly Pro Gln Lys Gln Ala Leu Cys
 100 105 110
 Phe Gln Arg Pro Leu Ile Arg Gly Arg Glu Gly Xaa Glu Gly Phe Gly
 115 120 125
 Xaa Asp Ser Asn Lys Ile Ser Gly Ser Leu Gln Pro Val Gln Lys Gly
 130 135 140
 Gln Asp Cys Ser Ala Leu Arg Ala Leu Glu Cys Pro Val Gly Thr Leu
 145 150 155 160
 Val Trp Glu Gly Ala Ala Pro Gly Glu Ser Leu Pro Leu Leu Pro Gly
 165 170 175
 Thr Ile Val Cys Met Pro Pro Gly Val Leu Gln Ala Gly Ala Gly Lys
 180 185 190
 Gly Leu Ala Ser Arg
 195

<210> 4466

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4466

Lys Ala Trp Ser Ala Phe Arg Gly Ile Arg Arg Lys His Arg Lys Ser
 1 5 10 15
 Leu Leu Ser Arg Ser Trp Ala Pro Leu Pro Leu Gly Gln Arg Thr Gly
 20 25 30
 Asn Arg Gly Ser Gly Ile Ser Gly Pro Ala Arg Glu Arg Ser Ser Arg
 35 40 45
 Ala Arg Ser Cys Pro Ala Asn His Ala Ala Pro Trp Ala Glu Ala Ala
 50 55 60
 Pro Ala Met Ala Leu Gly Pro Ala Pro Ala Gln Gly Xaa Leu Ser Pro
 65 70 75 80
 Ala Cys Trp Ala Pro Pro Trp Tyr Ile Ala Ser Ser Arg Thr Gln Ile

4049

85

90

95

Thr Pro

<210> 4467

<211> 47

<212> PRT

<213> Homo sapiens

<400> 4467

Gly Leu Pro His Arg Ile Ile Met His Ser Pro Leu Leu Met His Val
 1 5 10 15

Lys Phe Leu Leu Gly Lys Leu Thr His His Leu Thr Thr Ile Leu Ser
 20 25 30

Thr Ile Glu Tyr Ile Leu Phe His Lys Phe Gly Ile His Ser Glu
 35 40 45

<210> 4468

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4468

Phe Thr Asn Ala Phe Gly Gln Leu Asp Val Thr Asp Phe Ile Leu Cys
 1 5 10 15

Asp Tyr Asn Lys Lys His Asn Phe Leu Lys Lys Lys Lys Lys Lys
 20 25 30

4050

Lys Lys Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
35 40 45

Arg Arg His Ser Ser Ser Ile Xaa Ser Pro Lys Phe Asn Ser Leu Ala
50 55 60

Arg Xaa Phe Thr Thr Xaa
65 70

<210> 4469

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4469

Trp Xaa Tyr Arg Ile Leu Asn Arg Ile Gln Phe Asp Met Thr Ala Lys
1 5 10 15

Asn Val Gly Leu Thr Ser Thr Asn Ala Glu Val Arg Gly Phe Ile Asp
20 25 30

Gln Asn Leu Ser Pro Thr Lys Gly Asn Ile Ser Phe Val Ala Phe Pro
35 40 45

Val Ser Asn Thr Asn Ser Pro Thr Lys Ile Leu Pro Lys Thr Leu Gly
50 55 60

Pro Ile Asn Val Asn Val Gly Pro Gln Met
65 70

<210> 4470

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4051

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4470

Leu Pro Leu Tyr Thr Gly Ser Ser Arg Gly Glu His Ala Pro Pro Pro
 1 5 10 15

Trp Ser Pro Pro Arg Ala Val Asn Leu Gly Ser Xaa Ser Arg Ala Val
 20 25 30

Thr Leu Pro Glu Ala Pro Pro Pro Arg Arg Arg Pro Gly Ala Val Asn
 35 40 45

Pro Ser Leu Ala Ala Ala Glu Ser Ala Pro Gly Gln Ala His Leu Arg
 50 55 60

Ile Asn Ala Leu Met Ala Ser Pro Arg Arg Glu Ser Leu Gly Met Val
 65 70 75 80

Phe Ser Thr Val Lys Thr Phe Glu Pro Pro Glu Arg Leu Thr Pro Ala
 85 90 95

Pro Leu Arg Gly His Phe Ile Gln Lys Leu Asn His Ser Glu Phe Gln
 100 105 110

His Cys Arg Gly Ser Ser Gly Ser Val His Arg His Ser Leu Ala Leu
 115 120 125

Ser Pro Thr Glu Pro Xaa Arg Asp Leu Gly Pro Ser Trp Gly Leu Phe
 130 135 140

Ile Val Glu Lys Ala Ser Cys Gln Thr Arg Ile Cys Gly Arg Gly Gln
 145 150 155 160

Ala Gly Gly Leu Gly Arg Trp Gln Trp Xaa Val Ser Ala His Gly Cys
 165 170 175

Gly Trp

<210> 4471

<211> 107

<212> PRT

<213> Homo sapiens

4052

<400> 4471

```

Leu Arg Trp Lys Gly Arg Tyr Ser Glu Asn Asp Val Lys Asn Trp Thr
 1              5              10              15

Pro Glu Leu Gln Lys Tyr Leu Asn Phe Asp Pro Arg Thr Ala Gln Lys
          20              25              30

Ile Asp Asn Gly Ile Phe Trp Ile Ser Trp Asp Asp Leu Cys Gln Tyr
          35              40              45

Tyr Asp Val Ile Tyr Leu Ser Trp Asn Pro Gly Leu Phe Lys Glu Ser
          50              55              60

Thr Cys Ile His Ser Thr Trp Asp Ala Lys Gln Gly Pro Val Lys Asp
          65              70              75              80

Ala Tyr Ser Leu Ala Asn Asn Pro Gln Tyr Lys Leu Glu Val Gln Cys
          85              90              95

Thr Thr Gly Gly Cys Cys Ser Leu Gly Phe Ala
          100              105

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<210> 4472

<211> 129

<212> PRT

<213> Homo sapiens

<400> 4472

```

Ala Trp Ala Asp Ala Trp Gly Glu Phe Ser Ala Leu Arg Ala Glu Asn
 1              5              10              15

Glu Lys Ile Lys Leu Glu Leu His Gln Leu Lys Gln Gln Val Met Asp
          20              25              30

Glu Val Ile Lys Val Arg Thr Asp Thr Lys Leu Asp Phe Asn Leu Glu
          35              40              45

Lys Ser Arg Val Lys Glu Leu Tyr Ser Leu Asn Glu Lys Lys Leu Leu
          50              55              60

Glu Leu Arg Thr Glu Ile Val Ala Leu His Ala Gln Gln Asp Arg Ala
          65              70              75              80

Leu Thr Gln Thr Asp Arg Lys Ile Glu Thr Glu Val Ala Gly Leu Lys
          85              90              95

Thr Met Leu Glu Ser His Lys Leu Asp Asn Ile Lys Tyr Leu Ala Gly
          100              105              110

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4053

Ser Ile Phe Thr Cys Leu Thr Val Ala Leu Gly Phe Tyr Arg Leu Trp
 115 120 125

Ile

<210> 4473
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 4473
 Ala Cys Ser Asn Ala Cys Lys Thr Thr Tyr His Ser Ala Leu Val Phe
 1 5 10 15
 Leu Ile Gln Glu Gly Arg Ala Val Asn Leu Phe Gly Ala Asn Val Lys
 20 25 30

Cys Lys

<210> 4474
 <211> 90
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (23)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4474
 Thr Tyr Tyr Gln Asn Phe Phe Lys Glu Phe Phe Met Lys Asp Phe Pro
 1 5 10 15
 Pro Leu Gln Glu Arg Asn Xaa Val Leu Pro Phe Cys Leu Val Lys Ala
 20 25 30
 Glu Phe Ala Val Ala Ser Lys Glu Thr Phe Leu Asn Lys Asn Tyr Val
 35 40 45
 Leu Trp His Asn Pro Phe Phe Glu Leu Tyr Arg Glu Gln Ser Phe Gly
 50 55 60
 Asn Ser Gly Arg Tyr Leu Phe Leu Leu Asn Ile Tyr Pro Ile Ile Gly
 65 70 75 80

4054

Ile Thr Val Thr Tyr Leu Gly Phe His His
85 90

<210> 4475

<211> 43

<212> PRT

<213> Homo sapiens

<400> 4475

Phe Lys Tyr Val Lys Cys Gly Ser Phe Thr Pro His His Ser Glu His
1 5 10 15

Thr Gly Glu Met Cys Phe Phe Gly Lys Leu Lys Gly Ala Ser Ser Leu
20 25 30

Ile Gln Arg Asn Ile Ser His Val Cys Ser Phe
35 40

<210> 4476

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4476

Ser Trp Arg Ser Asn Asn Ser Arg Lys Ser Ser Ala Asp Thr Glu Phe
1 5 10 15

Ser Asp Glu Cys Thr Thr Ala Glu Arg Val Leu Met Lys Ser Pro Ser
20 25 30

Pro Ala Leu His Pro Pro Gln Lys Tyr Lys Asp Arg Gly Ile Leu His
35 40 45

Pro Lys Arg Gly Thr Glu Asp Arg Ser Asp Gln Ser Ser Leu Lys Ser
50 55 60

Thr Asp Ser Ser Ser Tyr Pro Ser Pro Cys Ala Ser Pro Ser Pro Pro
65 70 75 80

Ser Ser Gly Lys Gly Leu Lys Ile Ser Phe Xaa Lys Thr Lys His Ala
85 90 95

4055

Cys Ser Ile Leu His Asn Glu Glu
100

<210> 4477

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4477

Thr Val Val Glu Val Tyr Val Phe Val Tyr Leu Pro Ala Phe Glu Asn
1 5 10 15

Gly Gln Ile Asp Lys Leu Ser Leu Thr Asp Leu Gly Ala Leu Trp Ala
20 25 30

Gly Ile Lys Thr Glu Gly Gly Leu Ser Gln Ser Gln Ser Pro Gly Gln
35 40 45

Thr Xaa Phe Leu Ser Tyr Gly Thr Ser Phe Ser Thr Pro Gln Pro Gly
50 55 60

Gln Ala Pro Tyr Ser Tyr Gln Met Gln Gly Leu Tyr Ile His Ile Ala
65 70 75 80

Ile Phe Leu Asn Pro Val Gly
85

<210> 4478

<211> 104

<212> PRT

<213> Homo sapiens

<400> 4478

Leu Gln Arg Arg Arg Glu Gln Lys Gln Arg Arg His Asp Ala Gln Gln
1 5 10 15

Leu Gln Gln Leu Lys His Leu Glu Ser Phe Tyr Glu Lys Pro Pro Pro
20 25 30

Gly Leu Ile Lys Glu Asp Glu Thr Lys Pro Glu Asp Cys Ile Pro Asp
35 40 45

4056

Val Pro Gly Asn Glu His Ala Arg Glu Phe Leu Ala His Ala Pro Thr
 50 55 60

Lys Gly Leu Trp Met Pro Leu Gly Lys Glu Val Lys Val Met Gln Cys
 65 70 75 80

Trp Arg Cys Lys Pro Met Val Thr Glu Arg Val Thr Lys Asn Ala Leu
 85 90 95

Ser Leu Ser Lys Ala Thr Lys Ser
 100

<210> 4479

<211> 126

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4479

Leu Val Lys Cys Asn Tyr Cys Asn Phe Phe Pro Ile Gln Leu Tyr Ile
 1 5 10 15

Ser Leu Thr Asp Asp Gln Ile Ile Val Val Leu Asn Gln Phe Val Val
 20 25 30

Ser Lys Cys Phe Val Gly Phe Cys Leu Phe Val Phe Lys Glu Gln Phe
 35 40 45

Gly Ser Leu Asp Met Val Leu Gln Arg Asp Xaa Met Gly Cys Xaa Trp

4057

50 55 60
 Phe Trp Val Ile Thr Asp Leu Leu Asp Asn Leu Asp Lys Gln Pro Ser
 65 70 75 80
 Cys His Val Cys Leu Ser Asn Leu Lys Cys Ser Leu Tyr Phe Met Phe
 85 90 95
 Leu Glu Xaa Leu Ser Xaa Lys Asp Leu Thr Leu Trp Gln Ile Cys Leu
 100 105 110
 Asn Arg Asp Thr Thr Met Leu Pro Asn Lys Ala Phe Trp Pro
 115 120 125

<210> 4480

<211> 70

<212> PRT

<213> Homo sapiens

<400> 4480

Val Thr Asn Leu Val Ile Ile Phe Phe Leu Ile Gln Pro Gln Lys Leu
 1 5 10 15
 Ala Ile Leu Lys Arg Leu Met Phe Thr Asn Gly Lys Asn Glu Met Thr
 20 25 30
 Leu His Leu Leu Arg Glu Asn Ser Leu Arg His Ser Leu Ser Lys Leu
 35 40 45
 Tyr Phe Phe Tyr Leu Ile Leu Lys Thr Ser Ala Pro Lys Ser Val Ser
 50 55 60
 Ile Phe Pro Glu Cys Leu
 65 70

<210> 4481

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4058

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4481

Glu Leu Arg Gln Phe Ser Xaa Met Asn Arg Tyr Asn Leu Lys Pro Asn

1

5

10

15

Gln Thr Arg Lys Leu Arg Gly His Arg Met Pro Val Leu Gly Trp Ala

20

25

30

Thr Pro Leu Leu Phe Val Lys Met Xaa

35

40

<210> 4482

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4482

Asn Leu Asn Gly Xaa Leu Ile Phe Pro Leu Cys Pro Leu Val Pro Cys

1

5

10

15

Lys Met Leu Gly His Pro Lys Glu Arg Gly Glu Ile Ala Met Val Val

20

25

30

Pro Lys Val Leu Leu Ala Leu His Val Phe Leu Lys Ser Arg Thr Trp

35

40

45

Ser Phe Ser Phe Met

50

<210> 4483

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4059

<221> SITE
 <222> (60)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (72)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (78)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (80)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 4483
 Cys Arg Gln Glu Arg Ala Val Ala Pro Ala Arg Arg Ala Met Glu Arg
 1 5 10 15
 Ile Pro Ser Ala Gln Pro Pro Pro Ala Cys Leu Pro Lys Ala Pro Gly
 20 25 30
 Leu Glu His Gly Asp Leu Pro Gly Met Tyr Pro Ala His Met Tyr Gln
 35 40 45
 Val Tyr Lys Ser Arg Arg Gly Ile Lys Arg Xaa Xaa Asp Ser Lys Glu
 50 55 60
 Thr Tyr Lys Leu Pro Xaa Arg Xaa Ile Glu Lys Arg Asp Xaa Thr Xaa
 65 70 75 80

<210> 4484
 <211> 155
 <212> PRT
 <213> Homo sapiens

 <220>

4060

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4484

Ser	Phe	Gln	Gln	Glu	Met	Val	Thr	Ile	Arg	Arg	Ile	Ile	Gln	Ser	Gln
1				5					10					15	

Lys	Arg	Arg	Arg	Val	Lys	Thr	Leu	Pro	Gly	Asp	Gly	Lys	Gly	Asn	Lys
				20				25						30	

His	Lys	Lys	His	Arg	Lys	Arg	Arg	Lys	Gly	Glu	Glu	Ser	Glu	Gly	Phe
				35				40					45		

Leu	Asn	Pro	Glu	Leu	Leu	Glu	Thr	Ser	Arg	Lys	Ser	Arg	Glu	Pro	Thr
	50					55					60				

Xaa	Val	Glu	Glu	Asn	Lys	Thr	Asp	Ser	Leu	Phe	Val	Leu	Pro	Ser	Arg
65					70					75					80

Asp	Asp	Ala	Thr	Pro	Val	Arg	Asp	Glu	Pro	Met	Asp	Ala	Glu	Ser	Xaa
				85					90					95	

Thr	Phe	Lys	Ser	Val	Ser	Glu	Lys	Asp	Xaa	Arg	Glu	Arg	Asp	Lys	Pro
				100				105					110		

Lys	Ala	Lys	Gly	Asp	Lys	Thr	Lys	Arg	Lys	Asn	Asp	Gly	Ser	Ala	Val
				115				120				125			

Ser	Lys	Lys	Glu	Asn	Ile	Val	Lys	Pro	Ala	Lys	Gly	Pro	Gln	Glu	Lys
	130					135					140				

Val	Asp	Gly	Glu	Arg	Glu	Arg	Ser	Pro	Ser	Ile
145					150					155

<210> 4485

<211> 71

<212> PRT

<213> Homo sapiens

4061

<400> 4485

```

Pro Pro Arg Arg Gly Leu Gly Gly Thr Ser Ser Arg Ser Pro Gly Pro
 1           5           10           15

Arg Phe Cys Gly Arg Val His Cys Arg Gly Gly Asp Gly Val Arg Ala
          20           25           30

Arg Arg Gln Leu Pro Pro Arg Ser Ser Gly Pro Thr Trp Gln Ser Ala
          35           40           45

Ala His Gly Ser Pro Ala Ser Glu Asp Pro Trp Leu Gln Pro Pro Ile
          50           55           60

Pro Thr Cys Arg Arg Thr Arg
 65           70

```

<210> 4486

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4486

```

Asp Ile Asp Leu Asp Met Arg Phe Phe Ser Phe Ile Leu Ser Cys Arg
 1           5           10           15

Arg Asn Xaa Ser Ser Ile Cys Thr Arg Xaa Lys Thr Thr Tyr Thr Asn
          20           25           30

Thr Ile Glu Gln Leu Ile Met Lys Thr Leu Pro Ala Phe Ile Lys Asn
          35           40           45

Val Ile Ile Phe Phe Cys
          50

```

<210> 4487

<211> 33

4062

<212> PRT

<213> Homo sapiens

<400> 4487

Gln Cys Ser Glu Ile Cys Gly Ala Asn His Ser Phe Met Pro Ile Val
 1 5 10 15

Leu Glu Leu Ile Pro Leu Lys Ile Phe Glu Ile Gly Pro Val Phe Thr
 20 25 30

Leu

<210> 4488

<211> 186

<212> PRT

<213> Homo sapiens

<400> 4488

Ala Val Pro Lys Asp Val Ser Ser Glu Glu Ala Gly Gln Val Glu Gly
 1 5 10 15

Val Ser Thr Met Val Ile Asp Gly Glu Gly Asp Ala Ala Gln Val Glu
 20 25 30

Arg Phe Val His Leu Pro Gly Val Gln Glu Trp Val Gly Gly Thr Thr
 35 40 45

Gln Ser Ile Leu Tyr Leu Ala His Thr Cys Trp Tyr Trp Ser Trp Leu
 50 55 60

Ala Phe Pro Cys Ala Thr Arg Arg Ser Cys Thr Val Leu Ser Ser Gln
 65 70 75 80

Leu Thr Ser Ala Lys Met Ser Gly Phe Ser Ser Glu Leu Leu Cys Glu
 85 90 95

Ala Thr Arg Met Glu Val Ile Ser Ala Ser Val Leu Ile Leu Glu Val
 100 105 110

Glu Lys Trp Ser Glu Ser Ser Val Val Lys Trp Pro Tyr Thr Lys Val
 115 120 125

Gly Asp Ile Gln Asn Arg Gly Glu Ile Gly Leu Ser Ala Pro Leu Gly
 130 135 140

Gly Arg Glu Ala Val Gly Val Gly Gly Glu Met Ala Leu Cys Glu Cys
 145 150 155 160

4063

Gly Arg Pro Ala Asp Trp Arg Trp Asn Trp Pro Gln Cys Leu Ser Trp
 165 170 175

Arg Trp Arg Ser Gly Gln Ser Pro Trp Trp
 180 185

<210> 4489

<211> 134

<212> PRT

<213> Homo sapiens

<400> 4489

Pro Val Pro Phe Pro Thr Phe Ala Leu Pro Val Val Gly Met Trp Glu
 1 5 10 15

Ala His Leu Ser Ser Cys Asp Phe Met Ser Gln Thr Lys Asp Glu Arg
 20 25 30

Leu Val Ser Ala Met Met Val Val Ser Glu Ala Phe Pro Cys Pro Val
 35 40 45

Trp Cys Leu Pro His Ile Val Pro Asp Thr Gly Phe Leu Asp Pro Leu
 50 55 60

Leu Leu Ser Phe Leu Ser Phe Arg Ser Arg Ser Pro Val Leu Tyr Pro
 65 70 75 80

Ala Pro Gln Lys Pro Gln Cys Phe Ser Ser Ala Gly Leu Gly His Lys
 85 90 95

Glu Ala Leu Gly Tyr Gly Glu Arg Leu Leu Leu Pro Arg Val Tyr Ser
 100 105 110

Gln Ala Arg Gly Leu Pro Ser Ser Ser Gln Thr Ser Leu Lys Gly Ser
 115 120 125

Pro Phe Gly Ala Gly Arg
 130

<210> 4490

<211> 58

<212> PRT

<213> Homo sapiens

<400> 4490

Glu Phe Gly Thr Arg Gln Trp Cys Asp Leu Ser Ser Leu Gln Pro Pro
 1 5 10 15

4064

Arg Leu Gly Phe Met Gln Leu Ser Cys Leu Ser Leu Pro Ser Ser Trp
 20 25 30

Asp Tyr Arg His Val Pro Pro Cys Pro Ala Asn Phe Cys Ile Phe Ser
 35 40 45

Arg Asp Gly Val Ser Leu Cys Trp Ser Gly
 50 55

<210> 4491

<211> 25

<212> PRT

<213> Homo sapiens

<400> 4491

Arg Ala Pro Val Ile Pro Ala Thr Gln Glu Ala Glu Ala Gly Glu Trp
 1 5 10 15

Arg Glu Pro Gly Arg Arg Ser Leu Gln
 20 25

<210> 4492

<211> 351

<212> PRT

<213> Homo sapiens

<400> 4492

Glu Pro Pro Pro Pro Ala Ile Arg His His Leu Pro Leu Leu Gln Leu
 1 5 10 15

Phe Ser Gln Asp Gln Pro Leu Ala Gln Pro Arg Ala Met Ala Tyr Val
 20 25 30

Pro Ala Pro Gly Tyr Gln Pro Thr Tyr Asn Pro Thr Leu Pro Tyr Tyr
 35 40 45

Gln Pro Ile Pro Gly Gly Leu Asn Val Gly Met Ser Val Tyr Ile Gln
 50 55 60

Gly Val Val Ser Glu His Met Lys Arg Phe Phe Val Asn Phe Val Val
 65 70 75 80

Gly Gln Asp Pro Gly Ser Asp Val Ala Phe His Phe Asn Pro Arg Phe
 85 90 95

Asp Gly Trp Asp Lys Val Val Phe Asn Thr Leu Gln Gly Gly Lys Trp

4065

100	105	110
Gly Ser Glu Glu Arg Lys Arg Ser Met Pro Phe Lys Lys Gly Ala Ala		
115	120	125
Phe Glu Leu Val Phe Ile Val Leu Ala Glu His Tyr Lys Val Val Val		
130	135	140
Asn Gly Asn Pro Phe Tyr Glu Tyr Gly His Arg Leu Pro Leu Gln Met		
145	150	155
Val Thr His Leu Gln Val Asp Gly Asp Leu Gln Leu Gln Ser Ile Asn		
165	170	175
Phe Ile Gly Gly Gln Pro Leu Arg Pro Gln Gly Pro Pro Met Met Pro		
180	185	190
Pro Tyr Pro Gly Pro Gly His Cys His Gln Gln Leu Asn Ser Leu Pro		
195	200	205
Thr Met Glu Gly Pro Pro Thr Phe Asn Pro Pro Val Pro Tyr Phe Gly		
210	215	220
Arg Leu Gln Gly Gly Leu Thr Ala Arg Arg Thr Ile Ile Ile Lys Gly		
225	230	235
Tyr Val Pro Pro Thr Gly Lys Ser Phe Ala Ile Asn Phe Lys Val Gly		
245	250	255
Ser Ser Gly Asp Ile Ala Leu His Ile Asn Pro Arg Met Gly Asn Gly		
260	265	270
Thr Val Val Arg Asn Ser Leu Leu Asn Gly Ser Trp Gly Ser Glu Glu		
275	280	285
Lys Lys Ile Thr His Asn Pro Phe Gly Pro Gly Gln Phe Phe Asp Leu		
290	295	300
Ser Ile Arg Cys Gly Leu Asp Arg Phe Lys Val Tyr Ala Asn Gly Gln		
305	310	315
His Leu Phe Asp Phe Ala His Arg Leu Ser Ala Phe Gln Arg Val Asp		
325	330	335
Thr Leu Glu Ile Gln Gly Asp Val Thr Leu Ser Tyr Val Gln Ile		
340	345	350

<210> 4493

<211> 83

4066

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4493

Val	Asn	Glu	Cys	Gln	Gly	Arg	Gln	Ala	Pro	Ala	Pro	Arg	Ala	Leu	Gly
1				5				10						15	

Val	Ala	Arg	Gly	Cys	Leu	Ala	Arg	Thr	Pro	Cys	Thr	Tyr	Phe	Pro	Gly
			20					25					30		

Ala	Gln	His	Gly	Asn	Lys	Ala	Pro	Xaa	Xaa	Ala	Leu	Gly	Pro	Cys	Glu
		35					40					45			

Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
	50					55					60				

Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Gly	Gly	Arg	Xaa	Lys
65						70					75				80

Arg Phe Pro

<210> 4494

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4494

Pro Gln Arg Ala Arg Ala Gly Ala Arg Xaa Pro Ser Met Gly Val Leu

4067

1 5 10 15
 Leu Thr Gln Arg Thr Leu Leu Ser Leu Val Leu Ala Leu Leu Phe Pro
 20 25 30
 Ser Met Ala Ser Met Ala Ala Ile Gly Ser Cys Ser Lys Glu Tyr Arg
 35 40 45
 Val Leu Leu Gly Gln Leu Gln Lys Gln Thr Asp Leu Met Gln Asp Thr
 50 55 60
 Ser Arg Leu Leu Asp Pro Tyr Val Ser Thr Trp Ala Leu Val Ala Ser
 65 70 75 80
 Glu Ser Gln Arg Thr Met Gly Leu Gly Arg Glu
 85 90

<210> 4495

<211> 36

<212> PRT

<213> Homo sapiens

<400> 4495

Ala Pro Val Val Ala Ala Thr Arg Glu Ala Glu Ala Gly Glu Ser Leu
 1 5 10 15
 Glu Pro Val Gly Ala Glu Val Ala Val Ser Gln Asp Arg Ala Thr Ala
 20 25 30
 Leu Gln Pro Gly
 35

<210> 4496

<211> 50

<212> PRT

<213> Homo sapiens

<400> 4496

Leu Pro His Pro Lys Phe Tyr Gly Arg Leu Met Phe Cys Tyr Gly Asp
 1 5 10 15
 Tyr His Pro Ser Thr Trp Lys His Gln Asn Gly Leu Val Gln Leu Gly
 20 25 30
 Ser Ser Ala Arg Ser Arg Cys Leu Leu Phe Glu Ile Val Trp Lys Asp
 35 40 45

4068

Tyr Cys
50

<210> 4497
<211> 75
<212> PRT
<213> Homo sapiens

<400> 4497
Gln Val Asn Glu Val His Ile Trp Lys Ser Leu Asn Ile Phe Arg Ser
1 5 10 15
Trp Asn Ser Met Ala Thr Leu Val Val Tyr Ala Phe His Cys Cys Gly
20 25 30
Arg Gly Phe Gly Ser Lys Cys His Gln Gln Trp Ile Gln Lys Thr Trp
35 40 45
Ile Trp Asn Lys Gly Lys Ile Tyr Leu Met Gly Leu Asn Cys Ser Ala
50 55 60
Arg Ser Ile Trp Tyr Glu Met Lys Trp Leu Ser
65 70 75

<210> 4498
<211> 444
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4498
Asn Glu Gln Asp Asn Cys Val Leu Ile His Asp Val Asp Gln Arg Asn
1 5 10 15
Ser Asp Lys Asp Ile Phe Gly Asp Ala Cys Asp Asn Cys Leu Ser Val
20 25 30
Leu Xaa Asn Asp Gln Lys Asp Thr Asp Gly Asp Gly Arg Gly Asp Ala
35 40 45
Cys Asp Asp Asp Met Asp Gly Asp Gly Ile Lys Asn Ile Leu Asp Asn
50 55 60

4069

Cys Pro Lys Phe Pro Asn Arg Asp Gln Arg Asp Lys Asp Gly Asp Gly
 65 70 75 80
 Val Gly Asp Ala Cys Asp Ser Cys Pro Asp Val Ser Asn Pro Asn Gln
 85 90 95
 Ser Asp Val Asp Asn Asp Leu Val Gly Asp Ser Cys Asp Thr Asn Gln
 100 105 110
 Asp Ser Asp Gly Asp Gly His Gln Asp Ser Thr Asp Asn Cys Pro Thr
 115 120 125
 Val Ile Asn Ser Ala Gln Leu Asp Thr Asp Lys Asp Gly Ile Gly Asp
 130 135 140
 Glu Cys Asp Asp Asp Asp Asp Asn Asp Gly Ile Pro Asp Leu Val Pro
 145 150 155 160
 Pro Gly Pro Asp Asn Cys Arg Leu Val Pro Asn Pro Ala Gln Glu Asp
 165 170 175
 Ser Asn Ser Asp Gly Val Gly Asp Ile Cys Glu Ser Asp Phe Asp Gln
 180 185 190
 Asp Gln Val Ile Asp Arg Ile Asp Val Cys Pro Glu Asn Ala Glu Val
 195 200 205
 Thr Leu Thr Asp Phe Arg Ala Tyr Gln Thr Val Val Leu Asp Pro Glu
 210 215 220
 Gly Asp Ala Gln Ile Asp Pro Asn Trp Val Val Leu Asn Gln Gly Met
 225 230 235 240
 Glu Ile Val Gln Thr Met Asn Ser Asp Pro Gly Leu Ala Val Gly Tyr
 245 250 255
 Thr Ala Phe Asn Gly Val Asp Phe Glu Gly Thr Phe His Val Asn Thr
 260 265 270
 Gln Thr Asp Asp Asp Tyr Ala Gly Phe Ile Phe Gly Tyr Gln Asp Ser
 275 280 285
 Ser Ser Phe Tyr Val Val Met Trp Lys Gln Thr Glu Gln Thr Tyr Trp
 290 295 300
 Gln Ala Thr Pro Phe Arg Ala Val Ala Glu Pro Gly Ile Gln Leu Lys
 305 310 315 320
 Ala Val Lys Ser Lys Thr Gly Pro Gly Glu His Leu Arg Asn Ser Leu
 325 330 335

4070

Trp His Thr Gly Asp Thr Ser Asp Gln Val Arg Leu Leu Trp Lys Asp
 340 345 350

Ser Arg Asn Val Gly Trp Lys Asp Lys Val Ser Tyr Arg Trp Phe Leu
 355 360 365

Gln His Arg Pro Gln Val Gly Tyr Ile Arg Val Arg Phe Tyr Glu Gly
 370 375 380

Ser Glu Leu Val Ala Asp Ser Gly Val Thr Ile Asp Thr Thr Met Arg
 385 390 395 400

Gly Gly Arg Leu Gly Val Phe Cys Phe Ser Gln Glu Asn Ile Ile Trp
 405 410 415

Ser Asn Leu Lys Tyr Arg Cys Asn Asp Thr Ile Pro Glu Asp Phe Gln
 420 425 430

Glu Phe Gln Thr Gln Asn Phe Asp Arg Phe Asp Asn
 435 440

<210> 4499

<211> 358

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (234)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4499

Leu Pro Gln Val Met Ala Glu Phe Arg Asn Asn Pro Gly Glu Val Glu
 1 5 10 15

Gly Arg Lys Ala Lys Ser Met Lys Gly Gln Thr Thr Gly Lys Asn Gln
 20 25 30

Asp Asn Pro Val Ile Asp Glu Ile Asp Phe Leu Glu Ala Phe Lys Asn
 35 40 45

Ile Gln Pro Ser Ser Phe Arg Ser Val Ile Gly Leu Met Asp Ile Lys
 50 55 60

Pro Val Asp Trp Glu Glu Ile Gly Gly Leu Glu Asp Val Lys Leu Lys
 65 70 75 80

Leu Lys Gln Ser Ile Glu Trp Pro Leu Lys Phe Pro Trp Glu Phe Val
 85 90 95

4071

Arg Met Gly Leu Thr Gln Pro Lys Gly Val Leu Leu Tyr Gly Pro Pro
 100 105 110

Gly Cys Ala Lys Thr Thr Leu Val Arg Ala Leu Ala Thr Ser Cys His
 115 120 125

Cys Ser Phe Val Ser Val Ser Gly Ala Asp Leu Phe Ser Pro Phe Val
 130 135 140

Gly Asp Ser Glu Lys Val Leu Ser Gln Ile Phe Arg Gln Ala Arg Ala
 145 150 155 160

Ser Thr Pro Ala Ile Leu Phe Leu Asp Glu Ile Asp Ser Ile Leu Gly
 165 170 175

Ala Arg Ser Ala Ser Lys Thr Gly Cys Asp Val Gln Glu Arg Val Leu
 180 185 190

Ser Val Leu Leu Asn Glu Leu Asp Gly Val Gly Leu Lys Thr Ile Glu
 195 200 205

Arg Arg Gly Ser Lys Ser Ser Gln Gln Glu Phe Gln Glu Val Phe Asn
 210 215 220

Arg Ser Val Met Ile Ile Ala Ala Thr Xaa Arg Pro Asp Val Leu Asp
 225 230 235 240

Thr Ala Leu Leu Arg Pro Gly Arg Leu Asp Lys Ile Ile Tyr Ile Pro
 245 250 255

Pro Pro Asp His Lys Gly Arg Leu Ser Ile Leu Lys Val Cys Thr Lys
 260 265 270

Thr Met Pro Ile Gly Pro Asp Val Ser Leu Glu Asn Leu Ala Ala Glu
 275 280 285

Thr Cys Phe Phe Ser Gly Ala Asp Leu Arg Asn Leu Cys Thr Glu Ala
 290 295 300

Ala Leu Leu Ala Leu Gln Glu Asn Gly Leu Asp Ala Thr Thr Val Lys
 305 310 315 320

Gln Glu His Phe Leu Lys Ser Leu Lys Thr Val Lys Pro Ser Leu Ser
 325 330 335

Cys Lys Asp Leu Ala Leu Tyr Glu Asn Leu Phe Lys Lys Glu Gly Phe
 340 345 350

Ser Asn Val Glu Gly Ile
 355

4072

<210> 4500

<211> 446

<212> PRT

<213> Homo sapiens

<400> 4500

Asn Ser Ala Gln Val Gly Arg Gly Asp Ala Val Leu Lys Thr Trp Ala
 1 5 10 15

Pro Ala Gln Cys Leu Cys Ser Arg Met Gly Pro Ala Trp Leu Trp Leu
 20 25 30

Leu Gly Thr Gly Ile Leu Ala Ser Val His Cys Gln Pro Leu Leu Ala
 35 40 45

His Gly Asp Lys Ser Leu Gln Gly Pro Gln Pro Pro Arg His Gln Leu
 50 55 60

Ser Glu Pro Ala Pro Ala Tyr His Arg Ile Thr Pro Thr Ile Thr Asn
 65 70 75 80

Phe Ala Leu Arg Leu Tyr Lys Glu Leu Ala Ala Asp Ala Pro Gly Asn
 85 90 95

Ile Phe Phe Ser Pro Val Ser Ile Ser Thr Thr Leu Ala Leu Leu Ser
 100 105 110

Leu Gly Ala Gln Ala Asn Thr Ser Ala Leu Ile Leu Glu Gly Leu Gly
 115 120 125

Phe Asn Leu Thr Glu Thr Pro Glu Ala Asp Ile His Gln Gly Phe Arg
 130 135 140

Ser Leu Leu His Thr Leu Ala Leu Pro Ser Pro Lys Leu Glu Leu Lys
 145 150 155 160

Val Gly Asn Ser Leu Phe Leu Asp Lys Arg Leu Lys Pro Arg Gln His
 165 170 175

Tyr Leu Asp Ser Ile Lys Glu Leu Tyr Gly Ala Phe Ala Phe Ser Ala
 180 185 190

Asn Phe Thr Asp Ser Val Thr Thr Gly Arg Gln Ile Asn Asp Tyr Leu
 195 200 205

Arg Arg Gln Thr Tyr Gly Gln Val Val Asp Cys Leu Pro Glu Phe Ser
 210 215 220

4073

Gln Asp Thr Phe Met Val Leu Ala Asn Tyr Ile Phe Phe Lys Ala Lys
 225 230 235 240

Trp Lys His Pro Phe Ser Arg Tyr Gln Thr Gln Lys Gln Glu Ser Phe
 245 250 255

Phe Val Asp Glu Arg Thr Ser Leu Gln Val Pro Met Met His Gln Lys
 260 265 270

Glu Met His Arg Phe Leu Tyr Asp Gln Asp Leu Ala Cys Thr Val Leu
 275 280 285

Gln Ile Glu Tyr Arg Gly Asn Ala Leu Ala Leu Leu Val Leu Pro Asp
 290 295 300

Pro Gly Lys Met Lys Gln Val Glu Ala Ala Leu Gln Pro Gln Thr Leu
 305 310 315 320

Arg Lys Trp Gly Gln Leu Leu Leu Pro Ser Leu Leu Asp Leu His Leu
 325 330 335

Pro Arg Phe Ser Ile Ser Gly Thr Tyr Asn Leu Glu Asp Ile Leu Pro
 340 345 350

Gln Ile Gly Leu Thr Asn Ile Leu Asn Leu Glu Ala Asp Phe Ser Gly
 355 360 365

Val Thr Gly Gln Leu Asn Lys Thr Ile Ser Lys Val Ser His Lys Ala
 370 375 380

Met Val Asp Met Ser Glu Lys Gly Thr Glu Ala Gly Ala Ala Ser Gly
 385 390 395 400

Leu Leu Ser Gln Pro Pro Ser Leu Asn Thr Met Ser Asp Pro His Ala
 405 410 415

His Phe Asn Arg Pro Phe Leu Leu Leu Leu Trp Glu Val Thr Thr Gln
 420 425 430

Ser Leu Leu Phe Leu Gly Lys Val Val Asn Pro Val Ala Gly
 435 440 445

<210> 4501

<211> 180

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4074

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4501

Lys	Ala	Arg	Pro	Leu	Xaa	Leu	Thr	Lys	Gly	Asn	Lys	Xaa	Trp	Xaa	Ser
1				5					10					15	

Thr	Ala	Val	Ala	Ala	Ala	Leu	Gln	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg
			20					25					30		

Asn	Ser	Ala	Arg	Glu	Glu	His	Trp	Pro	Ser	Gln	Leu	Leu	Leu	Arg	Glu
			35				40					45			

Ser	Leu	Glu	Asp	Met	Met	Leu	His	Ser	Ala	Leu	Gly	Leu	Cys	Leu	Leu
	50					55					60				

Leu	Val	Thr	Val	Ser	Ser	Asn	Leu	Ala	Ile	Ala	Ile	Lys	Lys	Glu	Lys
65					70					75				80	

Arg	Pro	Pro	Gln	Thr	Leu	Ser	Arg	Gly	Trp	Gly	Asp	Asp	Ile	Thr	Trp
				85					90					95	

Val	Gln	Thr	Tyr	Glu	Glu	Gly	Leu	Phe	Tyr	Ala	Gln	Lys	Ser	Lys	Lys
			100					105					110		

Pro	Leu	Met	Val	Ile	His	His	Leu	Glu	Asp	Cys	Gln	Tyr	Ser	Gln	Ala
		115					120					125			

Leu	Lys	Lys	Val	Phe	Ala	Gln	Asn	Glu	Glu	Ile	Gln	Glu	Met	Ala	Gln
	130					135					140				

Asn	Lys	Phe	Ile	Met	Leu	Asn	Leu	Met	His	Glu	Thr	Thr	Asp	Lys	Asn
145					150					155				160	

Leu	Ser	Pro	Asp	Gly	Gln	Tyr	Val	Pro	Arg	Asn	His	Val	Cys	Arg	Pro
				165					170					175	

Phe	Phe	Asn	Ser
			180

4075

<210> 4502

<211> 29

<212> PRT

<213> Homo sapiens

<400> 4502

Gly Gly Thr Ser Ser Leu Ser Thr Met Asn Gln Thr Ala Ile Leu Asn
 1 5 10 15

Leu Leu Pro Tyr Leu Ser Asp Ser Lys Trp His Ser Arg
 20 25

<210> 4503

<211> 238

<212> PRT

<213> Homo sapiens

<400> 4503

Gln Asp Leu Lys Pro Val Leu Asp Arg Glu Tyr Leu Ala Ile Tyr Leu
 1 5 10 15

Lys Met Val Phe Phe Thr Cys Asn Ala Cys Gly Glu Ser Val Lys Lys
 20 25 30

Ile Gln Val Glu Lys His Val Ser Val Cys Arg Asn Cys Glu Cys Leu
 35 40 45

Ser Cys Ile Asp Cys Gly Lys Asp Phe Trp Gly Asp Asp Tyr Lys Asn
 50 55 60

His Val Lys Cys Ile Ser Glu Asp Gln Lys Tyr Gly Gly Lys Gly Tyr
 65 70 75 80

Glu Gly Lys Thr His Lys Gly Asp Ile Lys Gln Gln Ala Trp Ile Gln
 85 90 95

Lys Ile Ser Glu Leu Ile Lys Arg Pro Asn Val Ser Pro Lys Val Arg
 100 105 110

Glu Leu Leu Glu Gln Ile Ser Ala Phe Asp Asn Val Pro Arg Lys Lys
 115 120 125

Ala Lys Phe Gln Asn Trp Met Lys Asn Ser Leu Lys Val His Asn Glu
 130 135 140

Ser Ile Leu Asp Gln Val Trp Asn Ile Phe Ser Glu Ala Ser Asn Ser
 145 150 155 160

4076

Glu Pro Val Asn Lys Glu Gln Asp Gln Arg Pro Leu His Pro Val Ala
 165 170 175
 Asn Pro His Ala Glu Ile Ser Thr Lys Val Pro Ala Ser Lys Val Lys
 180 185 190
 Asp Ala Val Glu Gln Gln Gly Glu Val Lys Lys Asn Lys Arg Glu Arg
 195 200 205
 Lys Glu Glu Arg Gln Lys Lys Arg Lys Arg Glu Lys Lys Glu Leu Lys
 210 215 220
 Val Arg Lys Pro Pro Gly Lys Thr Pro Arg Asp Ser Glu Ala
 225 230 235

<210> 4504

<211> 341

<212> PRT

<213> Homo sapiens

<400> 4504

Thr His Ala Ser Ala His Ala Ser Ala His Ala Ser Ala His Ala Ser
 1 5 10 15
 Gly Trp His Val Gly Gln Ala Gln Gln Gly Pro Val Ser Ala Leu Ser
 20 25 30
 Arg Ala Leu Pro Ala Pro Ala Arg Thr Met Arg Ala Leu Glu Gly Pro
 35 40 45
 Gly Leu Ser Leu Leu Cys Leu Val Leu Ala Leu Pro Ala Leu Leu Pro
 50 55 60
 Val Pro Ala Val Arg Gly Val Ala Glu Thr Pro Thr Tyr Pro Trp Arg
 65 70 75 80
 Asp Ala Glu Thr Gly Glu Arg Leu Val Cys Ala Gln Cys Pro Pro Gly
 85 90 95
 Thr Phe Val Gln Arg Pro Cys Arg Arg Asp Ser Pro Thr Thr Cys Gly
 100 105 110
 Pro Cys Pro Pro Arg His Tyr Thr Gln Phe Trp Asn Tyr Leu Glu Arg
 115 120 125
 Cys Arg Tyr Cys Asn Val Leu Cys Gly Glu Arg Glu Glu Glu Ala Arg
 130 135 140
 Ala Cys His Ala Thr His Asn Arg Ala Cys Arg Cys Arg Thr Gly Phe

4077

145		150		155		160									
Phe	Ala	His	Ala	Gly	Phe	Cys	Leu	Glu	His	Ala	Ser	Cys	Pro	Pro	Gly
				165					170					175	
Ala	Gly	Val	Ile	Ala	Pro	Gly	Thr	Pro	Ser	Gln	Asn	Thr	Gln	Cys	Gln
			180					185					190		
Pro	Cys	Pro	Pro	Gly	Thr	Phe	Ser	Ala	Ser	Ser	Ser	Ser	Ser	Glu	Gln
		195					200					205			
Cys	Gln	Pro	His	Arg	Asn	Cys	Thr	Ala	Leu	Gly	Leu	Ala	Leu	Asn	Val
	210					215					220				
Pro	Gly	Ser	Ser	Ser	His	Asp	Thr	Leu	Cys	Thr	Ser	Cys	Thr	Gly	Phe
225					230					235					240
Pro	Leu	Ser	Thr	Arg	Val	Pro	Gly	Ala	Glu	Glu	Cys	Glu	Arg	Ala	Val
				245					250					255	
Ile	Asp	Phe	Val	Ala	Phe	Gln	Asp	Ile	Ser	Ile	Lys	Arg	Leu	Gln	Arg
		260						265					270		
Leu	Leu	Gln	Ala	Leu	Glu	Ala	Pro	Glu	Gly	Trp	Gly	Pro	Thr	Pro	Arg
		275					280					285			
Ala	Gly	Arg	Ala	Ala	Leu	Gln	Leu	Lys	Leu	Arg	Arg	Arg	Leu	Thr	Glu
		290				295					300				
Leu	Leu	Gly	Ala	Gln	Asp	Gly	Ala	Leu	Leu	Val	Arg	Leu	Leu	Gln	Ala
305					310					315				320	
Leu	Arg	Val	Ala	Arg	Met	Pro	Gly	Leu	Glu	Arg	Ser	Val	Arg	Glu	Arg
				325					330					335	
Phe	Leu	Pro	Val	His											
			340												

<210> 4505

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4078

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4505

Lys Gly Gly Gln Gly Ser Val Gly Gly Glu Arg Gly Cys Leu Cys Ile

1

5

10

15

Lys Thr Cys Phe Pro Ala Val Trp Arg Phe Leu Thr Glu Leu Lys Ile

20

25

30

Glu Leu Pro Phe Ile Pro Ala Ile Pro Leu Leu Gly Ile Tyr Ser Lys

35

40

45

Glu Asn Lys Leu Phe Tyr Gln Lys Asp Thr Cys Thr Pro Met Xaa Ile

50

55

60

Ala Ala Leu Phe Thr Ile Ala Lys Thr Trp Ser Lys Pro Arg Cys Pro

65

70

75

80

Ser Xaa Val Asn Xaa Ile Lys Lys Met

85

<210> 4506

<211> 75

<212> PRT

<213> Homo sapiens

<400> 4506

Ile Ser Thr Ser Ile His Thr Tyr Val Leu Val Phe His Tyr Cys Asn

1

5

10

15

Leu Lys Glu Arg Leu Cys Ile Pro Phe Phe Asn Ser Val Leu Val Phe

20

25

30

Val Leu Phe Lys Lys Gln Asn Ser Ala Leu Phe Ser Cys Ile Ile Leu

35

40

45

Glu Asp Thr Leu Leu Cys Thr Ile Pro Ser Ala Leu Glu His Cys Leu

50

55

60

Ala Phe Leu Ser Ile Tyr Lys Cys Ile Tyr Val

65

70

75

4079

<210> 4507

<211> 26

<212> PRT

<213> Homo sapiens

<400> 4507

Val	Thr	Ala	Gly	Val	Gln	Thr	Lys	Thr	Cys	Thr	Pro	Met	Phe	Ile	Ala
1				5				10						15	

Ala	Leu	Phe	Thr	Ala	Ala	Lys	Arg	Trp	Lys
			20					25	

<210> 4508

<211> 67

<212> PRT

<213> Homo sapiens

<400> 4508

Lys	Gln	Glu	Thr	Leu	Ser	Asp	Leu	Gly	Ser	Ser	Tyr	Ala	Lys	Gln	Leu
1				5				10						15	

Gly	Phe	Arg	Asp	Ser	Trp	Val	Phe	Ile	Gly	Ala	Lys	Asp	Leu	Arg	Gly
			20					25					30		

Lys	Ser	Pro	Phe	Glu	Gln	Phe	Leu	Lys	Asn	Ser	Pro	Asp	Thr	Asn	Lys
		35					40					45			

Tyr	Glu	Gly	Trp	Pro	Glu	Leu	Leu	Glu	Met	Glu	Gly	Cys	Met	Pro	Pro
	50					55					60				

Lys	Pro	Phe
		65

<210> 4509

<211> 229

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4509

Ala	Xaa	Ala	Pro	Pro	Gly	Arg	Ser	Met	Gly	Arg	Phe	Arg	Gly	Gly	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4080

1	5	10	15
Arg Cys Ile Lys Tyr Leu Leu Leu Gly Phe Asn Leu Leu Phe Trp Leu	20	25	30
Ala Gly Ser Ala Val Ile Ala Phe Gly Leu Trp Phe Arg Phe Gly Gly	35	40	45
Ala Ile Lys Glu Leu Ser Ser Glu Asp Lys Ser Pro Glu Tyr Phe Tyr	50	55	60
Val Gly Leu Tyr Val Leu Val Gly Ala Gly Ala Leu Met Met Ala Val	65	70	75
Gly Phe Phe Gly Cys Cys Gly Ala Met Arg Glu Ser Gln Cys Val Leu	85	90	95
Gly Ser Phe Phe Thr Cys Leu Leu Val Ile Phe Ala Ala Glu Val Thr	100	105	110
Thr Gly Val Phe Ala Phe Ile Gly Lys Gly Val Ala Ile Arg His Val	115	120	125
Gln Thr Met Tyr Glu Glu Ala Tyr Asn Asp Tyr Leu Lys Asp Arg Gly	130	135	140
Lys Gly Asn Gly Thr Leu Ile Thr Phe His Ser Thr Phe Gln Cys Cys	145	150	155
Gly Lys Glu Ser Ser Glu Gln Val Gln Pro Thr Cys Pro Lys Glu Leu	165	170	175
Leu Gly His Lys Asn Cys Ile Asp Glu Ile Glu Thr Ile Ile Ser Val	180	185	190
Lys Leu Gln Leu Ile Gly Ile Val Gly Ile Gly Ile Ala Gly Leu Thr	195	200	205
Ile Phe Gly Met Ile Phe Ser Met Val Leu Cys Cys Ala Ile Arg Asn	210	215	220
Ser Arg Asp Val Ile	225		

<210> 4510

<211> 74

<212> PRT

<213> Homo sapiens

4081

<400> 4510

Ile Glu Cys Val Asn Thr Val Leu Val Asn Phe Ile Thr Phe Leu Leu
 1 5 10 15

Pro Tyr Ser Leu Asn Phe Ser Val Phe Val Val Pro Lys Gln Leu Leu
 20 25 30

Asn Leu Glu Gln Ile Asn Leu Thr Pro Ala Lys Lys Arg Leu Leu Leu
 35 40 45

Ala Tyr Gln Leu Ser Leu Asn Ser Asn Ala His Val Thr Phe Ile Thr
 50 55 60

Ser Lys Asn Ile Ser Leu Met Ile His Leu
 65 70

<210> 4511

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4511

Tyr Ile Gly Phe Val Ile Leu Val Phe Phe Ala Ser Ser Tyr Val Lys
 1 5 10 15

Glu Ile Asp Asn Lys Ile Leu Asn Asn Lys Lys Lys Xaa Lys Xaa Ser
 20 25 30

Ser Lys Gly Xaa Val Ala Xaa Ala Ile

4082

35

40

<210> 4512

<211> 288

<212> PRT

<213> Homo sapiens

<400> 4512

Glu Ile Arg Val Ser Cys Thr Ala Gly Ala Gly Phe Pro Ala Ala Gln

1

5

10

15

Ala Arg Val Arg Cys Leu Cys His Leu Ile Leu Met Ser Gly Glu Ile

20

25

30

Ala Met Cys Glu Pro Glu Phe Gly Asn Asp Lys Ala Arg Glu Pro Ser

35

40

45

Val Gly Gly Arg Trp Arg Val Ser Trp Tyr Glu Arg Phe Val Gln Pro

50

55

60

Cys Leu Val Glu Leu Leu Gly Ser Ala Leu Phe Ile Phe Ile Gly Cys

65

70

75

80

Leu Ser Val Ile Glu Asn Gly Thr Asp Thr Gly Leu Leu Gln Pro Ala

85

90

95

Leu Ala His Gly Leu Ala Leu Gly Leu Val Ile Ala Thr Leu Gly Asn

100

105

110

Ile Ser Gly Gly His Phe Asn Pro Ala Val Ser Leu Ala Ala Met Leu

115

120

125

Ile Gly Gly Leu Asn Leu Val Met Leu Leu Pro Tyr Trp Val Ser Gln

130

135

140

Leu Leu Gly Gly Met Leu Gly Ala Ala Leu Ala Lys Ala Val Ser Pro

145

150

155

160

Glu Glu Arg Phe Trp Asn Ala Ser Gly Ala Ala Phe Val Thr Val Gln

165

170

175

Glu Gln Gly Gln Val Ala Gly Ala Leu Val Ala Glu Ile Ile Leu Thr

180

185

190

Thr Leu Leu Ala Leu Ala Val Cys Met Gly Ala Ile Asn Glu Lys Thr

195

200

205

Lys Gly Pro Leu Ala Pro Phe Ser Ile Gly Phe Ala Val Thr Val Asp

210

215

220

4084

<210> 4514
 <211> 43
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4514
 Gly Lys Lys Ile Lys Lys Leu Ala Ser Ala Xaa Arg Gly Gly Ser Leu
 1 5 10 15
 Pro Val Ile Pro Ala Leu Ser Ala Ala Glu Ala Ser Gly Ser Leu Glu
 20 25 30
 Val Xaa Ser Ser Lys Thr Ser Leu Gly Gln Thr
 35 40

<210> 4515
 <211> 220
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (216)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4515
 Asn Thr Pro Gly Phe Met Tyr Lys Asn Leu Gln Cys Leu Val Ile Asp
 1 5 10 15
 Glu Ala Asp Arg Ile Phe Asp Val Gly Phe Glu Glu Glu Leu Lys Gln
 20 25 30
 Ile Ile Lys Leu Leu Pro Thr Arg Arg Gln Thr Met Leu Phe Ser Ala
 35 40 45
 Thr Gln Thr Arg Lys Val Glu Asp Leu Ala Arg Ile Ser Leu Lys Lys
 50 55 60

4085

Glu Pro Leu Tyr Val Gly Val Asp Asp Asp Lys Ala Asn Ala Thr Val
 65 70 75 80
 Asp Gly Leu Glu Gln Lys Asn Arg Lys Lys Lys Leu Met Val Phe Phe
 85 90 95
 Ser Ser Cys Met Ser Val Lys Tyr His Tyr Glu Leu Leu Asn Tyr Ile
 100 105 110
 Asp Leu Pro Val Leu Ala Ile His Gly Lys Gln Lys Gln Asn Lys Arg
 115 120 125
 Thr Thr Thr Phe Phe Gln Phe Cys Asn Ala Asp Ser Gly Thr Leu Leu
 130 135 140
 Cys Thr Asp Val Ala Ala Arg Gly Leu Asp Ile Pro Glu Val Asp Trp
 145 150 155 160
 Ile Val Gln Tyr Asp Pro Pro Asp Asp Pro Lys Glu Tyr Ile His Arg
 165 170 175
 Val Gly Arg Thr Ala Arg Gly Leu Asn Gly Arg Gly His Ala Leu Leu
 180 185 190
 Ile Leu Arg Pro Glu Glu Leu Gly Phe Leu Arg Tyr Leu Lys Gln Ser
 195 200 205
 Lys Val Pro Leu Ser Glu Phe Xaa Leu Phe Leu Val
 210 215 220

<210> 4516

<211> 82

<212> PRT

<213> Homo sapiens

<400> 4516

Leu Glu Leu Phe Cys Asn Ile Thr Glu Phe Val Arg Ser Leu Ala Lys
 1 5 10 15
 Ile Phe Glu Gln Phe Ile Asn Val Glu Gln Met Phe Leu Phe Thr Ala
 20 25 30
 Leu Phe Val Thr Glu Gly Asp Lys Phe Ser Ser His Asp Tyr Trp Leu
 35 40 45
 Pro Cys Thr Ala Ile Phe Ile His Asn Ser Arg His Phe Pro Phe Leu
 50 55 60

4086

Trp Lys Ser Cys Cys Tyr Leu Asn Tyr Lys Cys Asn Cys Val Val Asn
 65 70 75 80

Glu Ser

<210> 4517

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4517

Lys Pro Gln Pro Leu Ala Tyr Ser Ser Phe Asn Thr Arg Asp Leu Trp
 1 5 10 15

Leu Ile Trp Gly Arg Lys Thr Leu Lys Val Ile Ser Leu Gly Gln Arg
 20 25 30

Pro Tyr Cys Thr Arg Gly Lys Lys Tyr Ile Leu His Leu Leu Leu Leu
 35 40 45

Gln Leu Cys Leu Lys Phe Ile Cys Leu Val Ile Leu Ser Thr Xaa Thr
 50 55 60

Asn Phe Leu Val Tyr Phe Lys His Leu Val Gly
 65 70 75

<210> 4518

<211> 38

<212> PRT

<213> Homo sapiens

<400> 4518

Val Asp Pro Glu Met Lys Val Glu Arg Tyr Lys Arg Thr Phe Asp Gln
 1 5 10 15

Asn Glu Glu Leu Gly Leu Asn Asp Met Lys Thr Glu Gly Tyr Glu Ala
 20 25 30

Gly Leu Ala Pro Gln Arg
 35

4087

<210> 4519

<211> 143

<212> PRT

<213> Homo sapiens

<400> 4519

Ala Arg Ala Asn Pro Ala Met Ala Tyr Ala Asn Glu Val Lys Arg Val
 1 5 10 15

Val Ser Ser Ala Gln Glu Lys Gly Arg Lys Ile Ala Ala Phe Phe Ala
 20 25 30

Glu Ser Leu Pro Ser Val Gly Gly Gln Ile Ile Pro Pro Ala Gly Tyr
 35 40 45

Phe Ser Gln Val Ala Glu His Ile Arg Lys Ala Gly Gly Val Phe Val
 50 55 60

Ala Asp Glu Ile Gln Val Gly Phe Gly Arg Val Gly Lys His Phe Trp
 65 70 75 80

Ala Phe Gln Leu Gln Gly Lys Asp Phe Val Pro Asp Ile Val Thr Met
 85 90 95

Gly Lys Ser Ile Gly Asn Gly His Pro Val Ala Cys Val Ala Ala Thr
 100 105 110

Gln Pro Val Ala Arg Ala Phe Glu Ala Thr Gly Leu Ser Thr Ser Thr
 115 120 125

Arg Leu Gly Ala Ala Gln Cys Pro Ala Leu Trp Gly Trp Pro Ser
 130 135 140

<210> 4520

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

4088

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4520

Val Thr His Ser Val Met Leu Gly Arg Pro Gln Ala Glu Lys His Leu
 1 5 10 15

Leu Gln Leu Thr Leu Phe Leu Ala Ile His Ser Phe Gly Leu Lys Ile
 20 25 30

Leu Gln His Leu Gln Glu Ser Phe Thr Asn Xaa Ser Phe Gly Gly Val
 35 40 45

Val Leu Asn Tyr Gln Leu Thr Arg Met Arg Xaa Leu Ala Leu Gly Ser
 50 55 60

Gln Pro Ala Asn Met Asp Gly Leu Ser Gln Xaa Leu Lys
 65 70 75

<210> 4521

<211> 347

<212> PRT

<213> Homo sapiens

<400> 4521

Arg Gly Val Val Asp Ser Glu Asp Leu Pro Leu Asn Ile Ser Arg Glu
 1 5 10 15

Met Leu Gln Gln Ser Lys Ile Leu Lys Val Ile Arg Lys Asn Ile Val
 20 25 30

Lys Lys Cys Leu Glu Leu Phe Ser Glu Leu Ala Glu Asp Lys Glu Asn
 35 40 45

Tyr Lys Lys Phe Tyr Glu Ala Phe Ser Lys Asn Leu Lys Leu Gly Ile
 50 55 60

His Glu Asp Ser Thr Asn Arg Arg Arg Leu Ser Glu Leu Leu Arg Tyr
 65 70 75 80

His Thr Ser Gln Ser Gly Asp Glu Met Thr Ser Leu Ser Glu Tyr Val
 85 90 95

Ser Arg Met Lys Glu Thr Gln Lys Ser Ile Tyr Tyr Ile Thr Gly Glu
 100 105 110

4089

Ser Lys Glu Gln Val Ala Asn Ser Ala Phe Val Glu Arg Val Arg Lys
 115 120 125
 Arg Gly Phe Glu Val Val Tyr Met Thr Glu Pro Ile Asp Glu Tyr Cys
 130 135 140
 Val Gln Gln Leu Lys Glu Phe Asp Gly Lys Ser Leu Val Ser Val Thr
 145 150 155 160
 Lys Glu Gly Leu Glu Leu Pro Glu Asp Glu Glu Glu Lys Lys Lys Met
 165 170 175
 Glu Glu Ser Lys Ala Lys Phe Glu Asn Leu Cys Lys Leu Met Lys Glu
 180 185 190
 Ile Leu Asp Lys Lys Val Glu Lys Val Thr Ile Ser Asn Arg Leu Val
 195 200 205
 Ser Ser Pro Cys Cys Ile Val Thr Ser Thr Tyr Gly Trp Thr Ala Asn
 210 215 220
 Met Glu Arg Ile Met Lys Ala Gln Ala Leu Arg Asp Asn Ser Thr Met
 225 230 235 240
 Gly Tyr Met Met Ala Lys Lys His Leu Glu Ile Asn Pro Asp His Pro
 245 250 255
 Ile Val Glu Thr Leu Arg Gln Lys Ala Glu Ala Asp Lys Asn Asp Lys
 260 265 270
 Ala Val Lys Asp Leu Val Val Leu Leu Phe Glu Thr Ala Leu Leu Ser
 275 280 285
 Ser Gly Phe Ser Leu Glu Asp Pro Gln Thr His Ser Asn Arg Ile Tyr
 290 295 300
 Arg Met Ile Lys Leu Gly Leu Gly Ile Asp Glu Asp Glu Val Ala Ala
 305 310 315 320
 Glu Glu Pro Asn Ala Ala Val Pro Asp Glu Ile Pro Pro Leu Glu Gly
 325 330 335
 Asp Glu Asp Ala Ser Arg Met Glu Glu Val Asp
 340 345

<210> 4522

<211> 81

<212> PRT

<213> Homo sapiens

4090

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4522

Leu Phe Leu Xaa Gly Gly Lys Asp Pro Leu Val Pro Xaa Xaa Lys Gln
 1 5 10 15

Leu Gly Lys Asp Leu Ala Leu Tyr Ile Tyr Trp Met Val Leu Met Ala
 20 25 30

Lys Leu Leu Asn Ser Leu Ile Ser His Val Ser Ala Ser Arg Ile Ser
 35 40 45

Asp Arg Asn Glu Thr His Leu Lys Met Arg Leu Thr Trp Arg Phe Phe
 50 55 60

Phe Pro Asn Leu Ser Tyr Leu Asn Trp Lys Asn Asn Gln Leu Ile Leu
 65 70 75 80

Cys

<210> 4523

<211> 56

<212> PRT

<213> Homo sapiens

<400> 4523

Thr Gln Val Met Gly Leu Cys Cys Thr Asp Tyr Phe Val Val His Val
 1 5 10 15

Leu Ser Leu Val Pro Asn Ser Tyr Phe Phe Cys Ser Ser Pro Ser Ser
 20 25 30

Tyr Pro Leu Pro Ser Ser Trp Pro Asn Val Tyr Cys Ser Leu Leu Cys
 35 40 45

4092

Leu Lys Ala Gln Met Ala Ser Ala Gly Gln Gly Lys Glu Glu Ala Val
130 135 140

Lys Gln Leu Arg Lys Met Gln Ala Gln Met Lys Glu Leu Trp Arg Glu
145 150 155 160

Val Glu Glu Thr Arg Thr Phe Arg Glu Glu Ile Phe Ser Gln Asn Arg
165 170 175

Glu Ser Glu Lys Arg Leu Lys Gly Leu Lys Leu Xaa Cys Cys Xaa Cys
180 185 190

Xaa

<210> 4525

<211> 218

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (190)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (194)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (207)

<223> Xaa equals any of the naturally occurring L-amino acids

4093

<400> 4525

Ala Ser Ala Ser Ile Cys Ser Gly Ile Lys Tyr Ala Phe Gln Val Ile
 1 5 10 15

Gly Glu Leu His Ser Gln Leu Asp Gly Ser Glu Val Leu Leu Leu Thr
 20 25 30

Asp Gly Glu Asp Asn Thr Ala Ser Ser Cys Ile Asp Glu Val Lys Gln
 35 40 45

Ser Gly Ala Ile Val His Phe Ile Ala Leu Gly Arg Ala Ala Asp Glu
 50 55 60

Ala Val Ile Glu Met Ser Lys Ile Thr Gly Gly Ser His Phe Tyr Val
 65 70 75 80

Ser Asp Glu Ala Gln Asn Asn Gly Leu Ile Asp Ala Phe Gly Ala Xaa
 85 90 95

Thr Ser Gly Asn Thr Asp Leu Ser Xaa Lys Ser Leu Gln Leu Glu Ser
 100 105 110

Lys Gly Leu Thr Leu Asn Ser Asn Ala Trp Met Asn Asp Thr Val Ile
 115 120 125

Ile Asp Ser Thr Val Gly Lys Asp Thr Phe Phe Leu Ile Thr Trp Asn
 130 135 140

Ser Leu Pro Pro Ser Ile Ser Leu Trp Asp Pro Ser Gly Thr Ile Met
 145 150 155 160

Glu Asn Phe Thr Val Asp Ala Thr Ser Lys Met Ala Tyr Leu Ser Ile
 165 170 175

Pro Gly Thr Xaa Lys Val Gly Thr Trp Ala Tyr Asn Leu Xaa Ala Lys
 180 185 190

Ala Xaa Pro Glu Thr Leu Thr Ile Thr Val Thr Ser Arg Ala Xaa Lys
 195 200 205

Phe Phe Cys Ala Ser Asn His Ser Glu Cys
 210 215

<210> 4526

<211> 76

<212> PRT

<213> Homo sapiens

4094

<400> 4526

Gly Ala Phe Leu Met Ala Thr Ala Ala Trp Leu Thr Thr Val Phe Lys
 1 5 10 15
 Gln Pro Gly Cys Ala Pro Glu Leu His Trp Ala Ser Phe His Asn Tyr
 20 25 30
 Gly Ser Val Ser Ile Thr Leu Ile Ser Glu Cys Gly Arg His Leu Asn
 35 40 45
 Lys Asn His Glu Ser His Phe Thr Asn Gln Asp Thr Gln Asp Val Arg
 50 55 60
 Leu Ser Asp Leu Ser Tyr Gln Gly His Lys Ala Ser
 65 70 75

<210> 4527

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4527

Cys Phe Ser Ser Ser Gly Phe Thr Cys His Asp His Gly Ala Thr Val
 1 5 10 15
 Leu Gln Tyr Ala Pro Lys Gln Gln Leu Leu Ile Ser Gly Gly Arg Lys
 20 25 30
 Arg His Val Cys Ile Phe Asp Ile Xaa Gln Arg Gln Leu Ile His Thr
 35 40 45
 Phe Gln Ala His Asp Ser Ala Ile Lys Ala Leu Ala Leu Asp Pro Tyr
 50 55 60
 Glu Glu Tyr Phe Thr Thr Gly Ser Ala Glu Gly Asn Ile Lys Val Trp
 65 70 75 80
 Arg Leu Thr Gly His Gly Leu Ile His Ser Phe Lys Ser Glu His Ala
 85 90 95
 Lys Gln Ser Ile Phe Arg Asn Ile Gly Ala Gly Val Met Gln Ile Asp
 100 105 110
 Ile Ile Gln Gly Asn Arg Leu Phe Ser Cys Gly Ala Asp Gly Thr Leu

4095

115 120 125
 Lys Thr Arg Val Leu Pro Asn Ala Phe Asn Ile Pro Asn Arg Ile Leu
 130 135 140
 Asp Ile Leu
 145

 <210> 4528
 <211> 423
 <212> PRT
 <213> Homo sapiens

 <400> 4528
 Pro Glu Asn Asn Gln Ile Glu Thr Met Glu Asp Leu Cys Val Ala Asn
 1 5 10 15
 Thr Leu Phe Ala Leu Asn Leu Phe Lys His Leu Ala Lys Ala Ser Pro
 20 25 30
 Thr Gln Asn Leu Phe Leu Ser Pro Trp Ser Ile Ser Ser Thr Met Ala
 35 40 45
 Met Val Tyr Met Gly Ser Arg Gly Ser Thr Glu Asp Gln Met Ala Lys
 50 55 60
 Val Leu Gln Phe Asn Glu Val Gly Ala Asn Ala Val Thr Pro Met Thr
 65 70 75 80
 Pro Glu Asn Phe Thr Ser Cys Gly Phe Met Gln Gln Ile Gln Lys Gly
 85 90 95
 Ser Tyr Pro Asp Ala Ile Leu Gln Ala Gln Ala Ala Asp Lys Ile His
 100 105 110
 Ser Ser Phe Arg Ser Leu Ser Ser Ala Ile Asn Ala Ser Thr Gly Asn
 115 120 125
 Tyr Leu Leu Glu Ser Val Asn Lys Leu Phe Gly Glu Lys Ser Ala Ser
 130 135 140
 Phe Arg Glu Glu Tyr Ile Arg Leu Cys Gln Lys Tyr Tyr Ser Ser Glu
 145 150 155 160
 Pro Gln Ala Val Asp Phe Leu Glu Cys Ala Glu Glu Ala Arg Lys Lys
 165 170 175
 Ile Asn Ser Trp Val Lys Thr Gln Thr Lys Gly Lys Ile Pro Asn Leu
 180 185 190

4096

Leu Pro Glu Gly Ser Val Asp Gly Asp Thr Arg Met Val Leu Val Asn
 195 200 205
 Ala Val Tyr Phe Lys Gly Lys Trp Lys Thr Pro Phe Glu Lys Lys Leu
 210 215 220
 Asn Gly Leu Tyr Pro Phe Arg Val Asn Ser Ala Gln Arg Thr Pro Val
 225 230 235 240
 Gln Met Met Tyr Leu Arg Glu Lys Leu Asn Ile Gly Tyr Ile Glu Asp
 245 250 255
 Leu Lys Ala Gln Ile Leu Glu Leu Pro Tyr Ala Gly Asp Val Ser Met
 260 265 270
 Phe Leu Leu Leu Pro Asp Glu Ile Ala Asp Val Ser Thr Gly Leu Glu
 275 280 285
 Leu Leu Glu Ser Glu Ile Thr Tyr Asp Lys Leu Asn Lys Trp Thr Ser
 290 295 300
 Lys Asp Lys Met Ala Glu Asp Glu Val Glu Val Tyr Ile Pro Gln Phe
 305 310 315 320
 Lys Leu Glu Glu His Tyr Glu Leu Arg Ser Ile Leu Arg Ser Met Gly
 325 330 335
 Met Glu Asp Ala Phe Asn Lys Gly Arg Ala Asn Phe Ser Gly Met Ser
 340 345 350
 Glu Arg Asn Asp Leu Phe Leu Ser Glu Val Phe His Gln Ala Met Val
 355 360 365
 Asp Val Asn Glu Glu Gly Thr Glu Ala Ala Ala Gly Thr Gly Gly Val
 370 375 380
 Met Thr Gly Arg Thr Gly His Gly Gly Pro Gln Phe Val Ala Asp His
 385 390 395 400
 Pro Phe Leu Phe Leu Ile Met His Lys Ile Thr Asn Cys Ile Leu Phe
 405 410 415
 Phe Gly Arg Phe Ser Ser Pro
 420

<210> 4529

<211> 86

<212> PRT

4097

<213> Homo sapiens

<400> 4529

Thr Met Glu Gly Cys Arg Pro Thr Ser Leu Ile Thr Ile Glu Ile His
 1 5 10 15
 Val Thr Ile Glu Pro Trp Lys Cys Ser Leu Ser Lys Leu Arg Cys Ala
 20 25 30
 Val Ser Ile Lys Tyr Ile Pro Asp Phe Lys Asp Val Pro Lys Asn Val
 35 40 45
 Asn Tyr Leu Asn Phe Tyr Ile Gly Glu Ile Asn Met Ser Trp Tyr Ser
 50 55 60
 Gly Leu Asn Lys Thr Ile Leu Ala Phe Leu Ser Leu Phe Phe Cys Lys
 65 70 75 80
 Lys Ile Lys Asn Cys Thr
 85

<210> 4530

<211> 244

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4530

Gly Leu Arg Arg Leu Asp Ser Ala Ser Gly Thr Val Tyr Thr Ala Met
 1 5 10 15
 Asp Val Ala Thr Gly Gln Glu Val Ala Ile Lys Gln Met Asn Leu Gln
 20 25 30
 Gln Gln Pro Lys Lys Glu Leu Ile Ile Asn Glu Ile Leu Val Met Arg
 35 40 45
 Glu Asn Lys Asn Pro Asn Ile Val Asn Tyr Leu Asp Ser Tyr Leu Val
 50 55 60
 Gly Asp Glu Leu Trp Val Val Met Glu Tyr Leu Ala Gly Gly Ser Leu
 65 70 75 80
 Thr Asp Val Val Thr Glu Thr Cys Met Asp Glu Gly Gln Ile Ala Ala
 85 90 95

4098

Val Cys Arg Glu Xaa Leu Gln Ala Leu Glu Phe Leu His Ser Asn Gln
 100 105 110
 Ile Thr Pro Glu Gln Ser Lys Arg Ser Thr Met Val Gly Thr Pro Tyr
 115 120 125
 Trp Met Ala Pro Glu Val Val Thr Arg Lys Ala Tyr Gly Pro Lys Val
 130 135 140
 Asp Ile Trp Ser Leu Gly Ile Met Ala Ile Glu Met Ile Glu Gly Glu
 145 150 155 160
 Pro Pro Tyr Leu Asn Glu Asn Pro Leu Arg Ala Leu Tyr Leu Ile Ala
 165 170 175
 Thr Asn Gly Thr Pro Glu Leu Gln Asn Pro Glu Lys Leu Ser Ala Ile
 180 185 190
 Phe Arg Asp Phe Leu Asn Arg Cys Leu Glu Met Asp Val Glu Lys Arg
 195 200 205
 Gly Ser Ala Lys Glu Leu Leu Gln His Gln Phe Leu Lys Ile Ala Lys
 210 215 220
 Pro Leu Ser Ser Leu Thr Pro Leu Ile Ala Ala Ala Lys Glu Ala Thr
 225 230 235 240
 Lys Asn Asn His

<210> 4531

<211> 624

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (192)

4099

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4531

His	Xaa	His	Ser	Phe	Ser	Ser	Gly	Tyr	Val	Glu	Met	Glu	Phe	Glu	Phe	1	5	10	15
Asp	Arg	Leu	Arg	Ala	Phe	Gln	Ala	Met	Gln	Val	His	Cys	Asn	Asn	Met	20	25	30	
His	Thr	Leu	Gly	Ala	Arg	Leu	Pro	Gly	Gly	Val	Glu	Cys	Arg	Phe	Arg	35	40	45	
Arg	Gly	Pro	Ala	Met	Ala	Trp	Glu	Gly	Glu	Pro	Met	Arg	His	Asn	Leu	50	55	60	
Gly	Gly	Asn	Leu	Gly	Asp	Pro	Arg	Ala	Arg	Ala	Val	Ser	Val	Pro	Leu	65	70	75	
Gly	Gly	Arg	Val	Ala	Arg	Phe	Leu	Gln	Cys	Arg	Phe	Leu	Phe	Ala	Gly	85	90	95	
Pro	Trp	Leu	Leu	Phe	Ser	Glu	Ile	Ser	Phe	Ile	Ser	Asp	Val	Val	Asn	100	105	110	
Asn	Ser	Ser	Pro	Ala	Leu	Gly	Gly	Thr	Phe	Pro	Pro	Ala	Pro	Trp	Trp	115	120	125	
Pro	Pro	Gly	Pro	Pro	Pro	Thr	Asn	Phe	Ser	Ser	Leu	Glu	Leu	Glu	Pro	130	135	140	
Arg	Gly	Gln	Gln	Pro	Val	Ala	Lys	Ala	Glu	Gly	Ser	Pro	Thr	Ala	Ile	145	150	155	
Leu	Ile	Gly	Cys	Leu	Val	Ala	Ile	Ile	Leu	Leu	Leu	Leu	Leu	Ile	Ile	165	170	175	
Ala	Leu	Met	Leu	Trp	Arg	Leu	His	Trp	Arg	Arg	Xaa	Leu	Ser	Lys	Xaa	180	185	190	
Glu	Arg	Arg	Val	Leu	Glu	Glu	Glu	Leu	Thr	Val	His	Leu	Ser	Val	Pro	195	200	205	
Gly	Asp	Thr	Ile	Leu	Ile	Asn	Asn	Arg	Pro	Gly	Pro	Arg	Glu	Pro	Pro	210	215	220	
Pro	Tyr	Gln	Glu	Pro	Arg	Pro	Arg	Gly	Asn	Pro	Pro	His	Ser	Ala	Pro	225	230	235	
Cys	Val	Pro	Asn	Gly	Ser	Ala	Leu	Leu	Leu	Ser	Asn	Pro	Ala	Tyr	Arg	245	250	255	

4100

Leu Leu Leu Ala Thr Tyr Ala Arg Pro Pro Arg Gly Pro Gly Pro Pro
 260 265 270

Thr Pro Ala Trp Ala Lys Pro Thr Asn Thr Gln Ala Tyr Ser Gly Asp
 275 280 285

Tyr Met Glu Pro Glu Lys Pro Gly Ala Pro Leu Leu Pro Pro Pro Pro
 290 295 300

Gln Asn Ser Val Pro His Tyr Ala Glu Ala Asp Ile Val Thr Leu Gln
 305 310 315 320

Gly Val Thr Gly Gly Asn Thr Tyr Ala Val Pro Ala Leu Pro Pro Gly
 325 330 335

Ala Val Gly Asp Gly Pro Pro Arg Val Asp Phe Pro Arg Ser Arg Leu
 340 345 350

Arg Phe Lys Glu Lys Leu Gly Glu Gly Gln Phe Gly Glu Val His Leu
 355 360 365

Cys Glu Val Asp Ser Pro Gln Asp Leu Val Ser Leu Asp Phe Pro Leu
 370 375 380

Asn Val Arg Lys Gly His Pro Leu Leu Val Ala Val Lys Ile Leu Arg
 385 390 395 400

Pro Asp Ala Thr Lys Asn Ala Arg Asn Asp Phe Leu Lys Glu Val Lys
 405 410 415

Ile Met Ser Arg Leu Lys Asp Pro Asn Ile Ile Arg Leu Leu Gly Val
 420 425 430

Cys Val Gln Asp Asp Pro Leu Cys Met Ile Thr Asp Tyr Met Glu Asn
 435 440 445

Gly Asp Leu Asn Gln Phe Leu Ser Ala His Gln Leu Glu Asp Lys Ala
 450 455 460

Ala Glu Gly Ala Pro Gly Asp Gly Gln Ala Ala Gln Gly Pro Thr Ile
 465 470 475 480

Ser Tyr Pro Met Leu Leu His Val Ala Ala Gln Ile Ala Ser Gly Met
 485 490 495

Arg Tyr Leu Ala Thr Leu Asn Phe Val His Arg Asp Leu Ala Thr Arg
 500 505 510

Asn Cys Leu Val Gly Glu Asn Phe Thr Ile Lys Ile Ala Asp Phe Gly
 515 520 525

4101

Met Ser Arg Asn Leu Tyr Ala Gly Asp Tyr Tyr Arg Val Gln Gly Arg
 530 535 540

Ala Val Leu Pro Ile Arg Trp Met Ala Trp Glu Cys Ile Leu Met Gly
 545 550 555 560

Lys Phe Thr Thr Ala Ser Asp Val Trp Ala Phe Gly Val Thr Leu Trp
 565 570 575

Glu Val Leu Met Leu Cys Arg Ala Gln Pro Phe Gly Gln Leu Thr Asp
 580 585 590

Glu Gln Val Ile Glu Asn Ala Gly Glu Phe Phe Arg Asp Gln Gly Arg
 595 600 605

Gln Val Tyr Leu Ser Arg Pro Pro Ala Cys Pro Gln Ala Tyr Met Ser
 610 615 620

<210> 4532

<211> 202

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (201)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4532

Xaa Gln Arg Trp Gly Gly Met Glu Ala Thr Ala Arg Lys Pro Gly Gln
 1 5 10 15

Gln Trp Arg Ser Ser Val Ser Pro Ser Ser Gly Leu Glu Pro Ala Glu
 20 25 30

Thr Ser Ala Gly Val Ser Ser Gln Gly Arg Trp Val Cys Gly Val Ser
 35 40 45

Arg Gly Ala Val Pro Ala Arg Val Lys Arg Lys Leu Pro Arg Val Leu
 50 55 60

4102

Cys Thr Pro Thr Arg Arg Arg Pro Ser Pro Arg Gly Pro Ser Gln Pro
 65 70 75 80
 Asp Ala Arg Val Leu Cys Val Ser Asn Thr Arg Ser Val Pro Ala Pro
 85 90 95
 Arg Arg Pro Arg Cys Pro Gln Leu Glu Glu Asp Ile Ala Ala Lys Glu
 100 105 110
 Lys Leu Leu Arg Val Ser Glu Asp Glu Arg Asp Arg Val Leu Glu Glu
 115 120 125
 Leu His Lys Ala Glu Asp Ser Leu Leu Ala Ala Glu Glu Ala Ala Pro
 130 135 140
 Arg Leu Lys Pro Asp Val Ala Ser Leu Asn Arg Arg Ile Gln Leu Val
 145 150 155 160
 Glu Glu Glu Leu Asp Arg Ala Gln Glu Arg Leu Ala Thr Ala Leu Gln
 165 170 175
 Lys Leu Glu Glu Ala Asp Lys Ala Ala Asp Glu Ser Glu Arg Gly Met
 180 185 190
 Lys Val Ile Glu Ser Arg Ala Gln Xaa Gly
 195 200

<210> 4533

<211> 397

<212> PRT

<213> Homo sapiens

<400> 4533

Pro Thr Arg Pro Ser Ser Val Ser Arg Arg Asp Lys Ser Lys Gln Val
 1 5 10 15
 Trp Glu Ala Val Leu Leu Pro Leu Ser Leu Leu Ser Met Met Asp Leu
 20 25 30
 Arg Asn Thr Pro Ala Lys Ser Leu Asp Lys Phe Ile Glu Asp Tyr Leu
 35 40 45
 Leu Pro Asp Thr Cys Phe Arg Met Gln Ile Asn His Ala Ile Asp Ile
 50 55 60
 Ile Cys Gly Phe Leu Lys Glu Arg Cys Phe Arg Gly Ser Ser Tyr Pro
 65 70 75 80
 Val Cys Val Ser Lys Val Val Lys Gly Gly Ser Ser Gly Lys Gly Thr

4103

85										90					95						
Thr	Leu	Arg	Gly	Arg	Ser	Asp	Ala	Asp	Leu	Val	Val	Phe	Leu	Ser	Pro						
			100					105					110								
Leu	Thr	Thr	Phe	Gln	Asp	Gln	Leu	Asn	Arg	Arg	Gly	Glu	Phe	Ile	Gln						
		115					120					125									
Glu	Ile	Arg	Arg	Gln	Leu	Glu	Ala	Cys	Gln	Arg	Glu	Arg	Ala	Phe	Ser						
	130					135					140										
Val	Lys	Phe	Glu	Val	Gln	Ala	Pro	Arg	Trp	Gly	Asn	Pro	Arg	Ala	Leu						
145					150					155					160						
Ser	Phe	Val	Leu	Ser	Ser	Leu	Gln	Leu	Gly	Glu	Gly	Val	Glu	Phe	Asp						
				165					170					175							
Val	Leu	Pro	Ala	Phe	Asp	Ala	Leu	Asp	Phe	Ala	Arg	Thr	Gly	Gln	Leu						
			180					185					190								
Thr	Gly	Gly	Tyr	Lys	Pro	Asn	Pro	Gln	Ile	Tyr	Val	Lys	Leu	Ile	Glu						
	195						200					205									
Glu	Cys	Thr	Asp	Leu	Gln	Lys	Glu	Gly	Glu	Phe	Ser	Thr	Cys	Phe	Thr						
	210					215					220										
Glu	Leu	Gln	Arg	Asp	Phe	Leu	Lys	Gln	Arg	Pro	Thr	Lys	Leu	Lys	Ser						
225					230					235					240						
Leu	Ile	Arg	Leu	Val	Lys	His	Trp	Tyr	Gln	Asn	Cys	Lys	Lys	Lys	Leu						
				245					250					255							
Gly	Lys	Leu	Pro	Pro	Gln	Tyr	Ala	Leu	Glu	Leu	Leu	Thr	Val	Tyr	Ala						
			260					265					270								
Trp	Glu	Arg	Gly	Ser	Met	Lys	Thr	His	Phe	Asn	Thr	Ala	Gln	Gly	Phe						
	275						280					285									
Arg	Thr	Val	Leu	Glu	Leu	Val	Ile	Asn	Tyr	Gln	Gln	Leu	Cys	Ile	Tyr						
	290					295					300										
Trp	Thr	Lys	Tyr	Tyr	Asp	Phe	Lys	Asn	Pro	Ile	Ile	Glu	Lys	Tyr	Leu						
305					310					315					320						
Arg	Arg	Gln	Leu	Thr	Lys	Pro	Arg	Pro	Val	Ile	Leu	Asp	Pro	Ala	Asp						
				325					330					335							
Pro	Thr	Gly	Asn	Leu	Gly	Gly	Gly	Asp	Pro	Lys	Gly	Trp	Arg	Gln	Leu						
			340					345					350								
Ala	Gln	Glu	Ala	Glu	Ala	Trp	Leu	Asn	Tyr	Pro	Cys	Phe	Lys	Asn	Trp						

4104

355 360 365
Asp Gly Ser Pro Val Ser Ser Trp Ile Leu Leu Val Arg Pro Pro Ala
370 375 380
Ser Ser Leu Pro Phe Ile Pro Ala Pro Leu His Glu Ala
385 390 395

<210> 4534

<211> 262

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4534

4105

Pro His Arg Ile Pro Ser Val Leu Ser Asp Leu Ser Ile Gln Ile Tyr
 1 5 10 15
 Gln Gln Leu Xaa Lys Ile Ala Glu Gly Xaa Leu Gln Pro Met Ile Val
 20 25 30
 Ser Ala Met Leu Glu Asn Glu Ser Ile Gln Gly Leu Ser Gly Val Lys
 35 40 45
 Pro Thr Gly Xaa Xaa Lys Xaa Ser Ser Ser Met Ala Asp Gly Asp Asn
 50 55 60
 Ser Tyr Xaa Leu Glu Ala Xaa Ile Arg Gln Met Asn Ala Phe His Thr
 65 70 75 80
 Val Met Cys Asp Gln Gly Leu Asp Pro Glu Ile Ile Leu Gln Val Phe
 85 90 95
 Lys Gln Leu Phe Tyr Met Ile Asn Ala Val Thr Leu Asn Asn Leu Leu
 100 105 110
 Leu Arg Lys Asp Val Cys Ser Trp Ser Thr Gly Met Gln Leu Arg Tyr
 115 120 125
 Asn Ile Ser Gln Leu Glu Glu Trp Leu Arg Gly Arg Asn Leu His Gln
 130 135 140
 Ser Gly Ala Val Gln Thr Met Glu Pro Leu Ile Gln Ala Ala Gln Leu
 145 150 155 160
 Leu Gln Leu Lys Lys Lys Thr Gln Glu Asp Ala Glu Ala Ile Cys Ser
 165 170 175
 Leu Cys Thr Ser Leu Ser Thr Gln Gln Ile Val Lys Ile Leu Asn Leu
 180 185 190
 Tyr Thr Pro Leu Asn Glu Phe Glu Glu Arg Val Thr Val Ala Phe Ile
 195 200 205
 Arg Thr Ile Gln Ala Gln Leu Gln Glu Arg Asn Asp Pro Gln Gln Leu
 210 215 220
 Leu Leu Asp Ala Lys His Met Phe Pro Val Leu Phe Pro Phe Asn Pro
 225 230 235 240
 Ser Ser Leu Thr Met Asp Ser Ile His Ile Pro Ala Cys Leu Asn Leu
 245 250 255
 Glu Phe Leu Asn Glu Val
 260

4106

<210> 4535

<211> 451

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (371)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4535

Gly Met Glu Gly Ser Lys Thr Ser Asn Asn Ser Thr Met Gln Val Ser
 1 5 10 15

Phe Val Cys Gln Arg Cys Ser Gln Pro Leu Lys Leu Asp Thr Ser Phe
 20 25 30

Lys Ile Leu Asp Arg Val Thr Ile Gln Glu Leu Thr Ala Pro Leu Leu
 35 40 45

Thr Thr Ala Gln Ala Lys Pro Gly Glu Thr Gln Glu Glu Glu Thr Asn
 50 55 60

Ser Gly Glu Glu Pro Phe Ile Glu Thr Pro Arg Gln Asp Gly Val Ser
 65 70 75 80

Arg Arg Phe Ile Pro Pro Ala Arg Met Met Ser Thr Glu Ser Ala Asn
 85 90 95

Ser Phe Thr Leu Ile Gly Glu Ala Ser Asp Gly Gly Thr Met Glu Asn
 100 105 110

Leu Ser Arg Arg Leu Lys Val Thr Gly Asp Leu Phe Asp Ile Met Ser
 115 120 125

Gly Gln Thr Asp Val Asp His Pro Leu Cys Glu Glu Cys Thr Asp Thr
 130 135 140

Leu Leu Asp Gln Leu Asp Thr Gln Leu Asn Val Thr Glu Asn Glu Cys
 145 150 155 160

Gln Asn Tyr Lys Arg Cys Leu Glu Ile Leu Glu Gln Met Asn Glu Asp
 165 170 175

Asp Ser Glu Gln Leu Gln Met Glu Leu Lys Glu Leu Ala Leu Glu Glu
 180 185 190

Glu Arg Leu Ile Gln Glu Leu Glu Asp Val Glu Lys Asn Arg Lys Ile
 195 200 205

4107

Val	Ala	Glu	Asn	Leu	Glu	Lys	Val	Gln	Ala	Glu	Ala	Glu	Arg	Leu	Asp	210	215	220	
Gln	Glu	Glu	Ala	Gln	Tyr	Gln	Arg	Glu	Tyr	Ser	Glu	Phe	Lys	Arg	Gln	225	230	235	240
Gln	Leu	Glu	Leu	Asp	Asp	Glu	Leu	Lys	Ser	Val	Glu	Asn	Gln	Met	Arg	245	250	255	
Tyr	Ala	Gln	Thr	Gln	Leu	Asp	Lys	Leu	Lys	Lys	Thr	Asn	Val	Phe	Asn	260	265	270	
Ala	Thr	Phe	His	Ile	Trp	His	Ser	Gly	Gln	Phe	Gly	Thr	Ile	Asn	Asn	275	280	285	
Phe	Arg	Leu	Gly	Arg	Leu	Pro	Ser	Val	Pro	Val	Glu	Trp	Asn	Glu	Ile	290	295	300	
Asn	Ala	Ala	Trp	Gly	Gln	Thr	Val	Leu	Leu	Leu	His	Ala	Leu	Ala	Asn	305	310	315	320
Lys	Met	Gly	Leu	Lys	Phe	Gln	Arg	Tyr	Arg	Leu	Val	Pro	Tyr	Gly	Asn	325	330	335	
His	Ser	Tyr	Leu	Glu	Ser	Leu	Thr	Asp	Lys	Ser	Lys	Glu	Leu	Pro	Leu	340	345	350	
Tyr	Cys	Ser	Gly	Gly	Leu	Arg	Phe	Phe	Trp	Asp	Asn	Lys	Phe	Asp	His	355	360	365	
Ala	Met	Xaa	Ala	Phe	Leu	Asp	Cys	Val	Gln	Gln	Phe	Lys	Glu	Glu	Val	370	375	380	
Glu	Lys	Gly	Glu	Thr	Arg	Phe	Cys	Leu	Pro	Tyr	Arg	Met	Asp	Val	Glu	385	390	395	400
Lys	Gly	Lys	Ile	Glu	Asp	Thr	Gly	Gly	Ser	Gly	Gly	Ser	Tyr	Ser	Ile	405	410	415	
Lys	Thr	Gln	Phe	Asn	Ser	Glu	Glu	Gln	Trp	Thr	Lys	Ala	Leu	Lys	Phe	420	425	430	
Met	Leu	Thr	Asn	Leu	Lys	Trp	Gly	Leu	Ala	Trp	Val	Ser	Ser	Gln	Phe	435	440	445	
Tyr	Asn	Lys														450			

4108

<210> 4536

<211> 35

<212> PRT

<213> Homo sapiens

<400> 4536

Val	Tyr	Ile	Arg	Asp	Pro	Leu	Val	His	Ser	Thr	Ala	Asp	Ile	Ser	Ser
1				5					10					15	

Ile	Phe	Asn	Thr	Thr	Val	Cys	Ser	Lys	Ala	Arg	Trp	Ser	Leu	Leu	Lys
			20					25					30		

Leu	His	Phe
	35	

<210> 4537

<211> 201

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4537

Asn	Asn	Cys	Ser	Leu	Leu	Trp	Val	Leu	Leu	Ala	Gly	Phe	Arg	Leu	Gly
1				5					10					15	

Asn	Val	Val	His	Ala	Ile	Gln	Ala	Thr	Glu	Gln	Ser	Ile	His	Ala	Thr
			20					25					30		

Asp	Leu	Val	Pro	Arg	Leu	Cys	Leu	Thr	Leu	Ala	Asn	Leu	Asn	Arg	Val
		35					40					45			

Ile	Tyr	Phe	Ile	Cys	Asp	Thr	Ile	Leu	Trp	Val	Arg	Ser	Val	Gly	Leu
	50					55					60				

Thr	Ser	Gly	Ile	Asn	Lys	Glu	Lys	Trp	Arg	Thr	Arg	Ala	Ala	His	His
65					70					75					80

Tyr	Tyr	Tyr	Ser	Leu	Leu	Leu	Ser	Leu	Val	Arg	Asp	Leu	Tyr	Glu	Ile
				85					90					95	

Ser	Leu	Gln	Met	Lys	Arg	Val	Thr	Cys	Asp	Arg	Ala	Lys	Lys	Glu	Lys
			100					105					110		

Ser	Ala	Ser	Gln	Asp	Pro	Leu	Trp	Phe	Ser	Val	Ala	Glu	Glu	Xaa	Thr
			115				120						125		

4109

Glu Trp Leu Gln Ser Phe Leu Leu Leu Leu Phe Arg Ser Leu Lys Gln
 130 135 140

His Pro Pro Leu Leu Leu Asp Thr Val Lys Asn Leu Cys Asp Ile Leu
 145 150 155 160

Asn Pro Leu Asp Leu Leu Gly Ile Tyr Lys Ser Asn Pro Gly Ile Ile
 165 170 175

Gly Leu Gly Gly Leu Val Ser Ser Ile Ala Gly Met Ile Thr Val Ala
 180 185 190

Tyr Pro Gln Met Lys Leu Lys Thr Arg
 195 200

<210> 4538

<211> 70

<212> PRT

<213> Homo sapiens

<400> 4538

Ala Asp Ile Ala Gly Val Leu Ala Ile Arg Pro Asp Glu Leu Arg Phe
 1 5 10 15

Arg Tyr Ser Met Val Ala Tyr Trp Arg Gln Ala Gly Leu Ser Tyr Ile
 20 25 30

Arg Tyr Ser Gln Ile Cys Ala Lys Ala Val Arg Asp Ala Leu Lys Thr
 35 40 45

Glu Phe Lys Ala Asn Ala Glu Lys Thr Ser Gly Ser Asn Val Lys Ile
 50 55 60

Val Lys Val Lys Lys Glu
 65 70

<210> 4539

<211> 72

<212> PRT

<213> Homo sapiens

<400> 4539

Ile Lys Ser Leu Asp Glu Gln Cys Val Val Gly Lys Ile Ser Lys His
 1 5 10 15

Trp Thr Gly Ile Leu Arg Glu Ala Phe Thr Asp Ala Asp Asn Phe Gly

4110

	20		25		30										
Ile	Gln	Phe	Pro	Leu	Asp	Leu	Asp	Val	Lys	Met	Lys	Ala	Val	Met	Ile
	35				40				45						
Gly	Ala	Cys	Phe	Leu	Ile	Asp	Phe	Met	Phe	Phe	Glu	Ser	Thr	Gly	Ser
	50				55				60						
Gln	Glu	Gln	Lys	Ser	Gly	Val	Trp								
	65				70										

<210> 4540

<211> 376

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (364)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (370)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (372)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (374)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4540

Ser	Asn	Leu	Val	Pro	Val	Asp	Ile	Ile	Glu	Ser	Val	Val	Ser	Lys	Glu
1				5					10					15	

Met	Asp	Lys	Arg	Tyr	Leu	Gln	Phe	Asp	Ile	Lys	Ala	Phe	Val	Glu	Asn
			20					25					30		

Asn	Pro	Ala	Ile	Lys	Trp	Cys	Pro	Thr	Pro	Gly	Cys	Asp	Arg	Ala	Val
		35					40					45			

Arg	Leu	Thr	Lys	Gln	Gly	Ser	Asn	Thr	Ser	Gly	Ser	Asp	Thr	Leu	Ser
	50					55						60			

4111

Phe Pro Leu Leu Arg Ala Pro Ala Val Asp Cys Gly Lys Gly His Leu
 65 70 75 80

Phe Cys Trp Glu Cys Leu Gly Glu Ala His Glu Pro Cys Asp Cys Gln
 85 90 95

Thr Trp Lys Asn Trp Leu Gln Lys Ile Thr Glu Met Lys Pro Glu Glu
 100 105 110

Leu Val Gly Val Ser Glu Ala Tyr Glu Asp Ala Ala Asn Cys Leu Trp
 115 120 125

Leu Leu Thr Asn Ser Lys Pro Cys Ala Asn Cys Lys Ser Pro Ile Gln
 130 135 140

Lys Asn Glu Gly Cys Asn His Met Gln Cys Ala Lys Cys Lys Tyr Asp
 145 150 155 160

Phe Cys Trp Ile Cys Leu Glu Glu Trp Lys Lys His Ser Ser Ser Thr
 165 170 175

Gly Gly Tyr Tyr Arg Cys Thr Arg Tyr Glu Val Ile Gln His Val Glu
 180 185 190

Glu Gln Ser Lys Glu Met Thr Val Glu Ala Glu Lys Lys His Lys Arg
 195 200 205

Phe Gln Glu Leu Asp Arg Phe Met His Tyr Tyr Thr Arg Phe Lys Asn
 210 215 220

His Glu His Ser Tyr Gln Leu Glu Gln Arg Leu Leu Lys Thr Ala Lys
 225 230 235 240

Glu Lys Met Glu Gln Leu Ser Arg Ala Leu Lys Glu Thr Glu Gly Gly
 245 250 255

Cys Pro Asp Thr Thr Phe Ile Glu Asp Ala Val His Val Leu Leu Lys
 260 265 270

Thr Arg Arg Ile Leu Lys Cys Ser Tyr Pro Tyr Gly Phe Phe Leu Glu
 275 280 285

Pro Lys Ser Thr Lys Lys Glu Ile Phe Glu Leu Met Gln Thr Asp Leu
 290 295 300

Glu Met Val Thr Glu Asp Leu Ala Gln Lys Val Asn Arg Pro Tyr Leu
 305 310 315 320

Arg Thr Pro Arg His Lys Ile Ile Lys Ala Ala Cys Leu Val Gln Gln
 325 330 335

4112

Lys Arg Gln Glu Phe Leu Gly Ile Cys Gly Leu Gly Gly Val Ala Pro
 340 345 350

Ala Asp Ser Pro Glu Ala Ser Lys Ala His Phe Xaa Gly Gly Asn Met
 355 360 365

Gly Xaa Gly Xaa Tyr Xaa Gly Val
 370 375

<210> 4541

<211> 123

<212> PRT

<213> Homo sapiens

<400> 4541

Ala Arg Val Lys Leu Lys Tyr Cys Phe Thr Cys Lys Met Phe Arg Pro
 1 5 10 15

Pro Arg Thr Ser His Cys Ser Val Cys Asp Asn Cys Val Glu Arg Phe
 20 25 30

Asp His His Cys Pro Trp Val Gly Asn Cys Val Gly Arg Arg Asn Tyr
 35 40 45

Arg Phe Phe Tyr Ala Phe Ile Leu Ser Leu Ser Phe Leu Thr Ala Phe
 50 55 60

Ile Phe Ala Cys Val Val Thr His Leu Thr Leu Arg Ala Gln Gly Ser
 65 70 75 80

Asn Phe Leu Ser Thr Leu Lys Glu Thr Pro Ala Ser Val Leu Gly Val
 85 90 95

Gly Asp Leu Leu Leu Leu His Leu Val His Ser Gly Pro Leu Arg Val
 100 105 110

Ser His Val Pro Arg Arg Leu Gln Pro Asp Tyr
 115 120

<210> 4542

<211> 245

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (138)

4113

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (216)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (238)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (244)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4542

Gly	Asp	Thr	Thr	Ile	Pro	Leu	Ser	Leu	Cys	Leu	Ser	Gln	Arg	Pro	His
1				5				10						15	

Leu	Thr	Ser	Pro	Lys	Gly	Ser	Arg	Cys	Ser	Arg	His	Thr	Phe	Ala	Pro
			20					25						30	

Ala	Ala	Met	Thr	Leu	Ser	Pro	Leu	Leu	Leu	Phe	Leu	Pro	Pro	Leu	Leu
		35					40					45			

Leu	Leu	Leu	Asp	Val	Pro	Thr	Ala	Ala	Val	Gln	Ala	Ser	Pro	Leu	Gln
		50				55					60				

Ala	Leu	Asp	Phe	Phe	Gly	Asn	Gly	Pro	Pro	Val	Asn	Tyr	Lys	Thr	Gly
65					70					75					80

Asn	Leu	Tyr	Leu	Arg	Gly	Pro	Leu	Lys	Lys	Ser	Asn	Ala	Pro	Leu	Val
				85					90					95	

4114

Asn Val Thr Leu Tyr Tyr Glu Ala Leu Cys Gly Gly Cys Arg Ala Phe
 100 105 110
 Leu Ile Arg Glu Leu Phe Pro Thr Trp Leu Leu Val Met Glu Ile Leu
 115 120 125
 Asn Val Thr Leu Val Pro Tyr Gly Asn Xaa Gln Glu Gln Xaa Xaa Xaa
 130 135 140
 Gly Arg Trp Glu Phe Lys Cys Gln His Gly Glu Glu Glu Cys Lys Phe
 145 150 155 160
 Asn Lys Val Glu Ala Cys Val Leu Asp Glu Leu Asp Met Glu Leu Ala
 165 170 175
 Phe Leu Thr Ile Val Cys Met Glu Glu Phe Glu Asp Met Glu Arg Ser
 180 185 190
 Leu Pro Leu Cys Cys Ser Ser Thr Pro Arg Leu Ser Gln Asn Tyr His
 195 200 205
 Glu Cys Ala Met Gly Arg Gly Xaa Ser His His Ala Thr Pro Arg Gln
 210 215 220
 Ile Ser Gln His Lys Asp Met Ser Trp Tyr Ala Met Glu Xaa Glu Ile
 225 230 235 240
 Thr Ser Leu Xaa Val
 245

<210> 4543

<211> 197

<212> PRT

<213> Homo sapiens

<400> 4543

Tyr Trp Cys Glu Gln Cys Asp Val Gln Phe Ser Ser Ser Ser Glu Leu
 1 5 10 15
 Tyr Leu His Phe Gln Glu His Ser Cys Asp Glu Gln Tyr Leu Cys Gln
 20 25 30
 Phe Cys Glu His Glu Thr Asn Asp Pro Glu Asp Leu His Ser His Val
 35 40 45
 Val Asn Glu His Ala Cys Lys Leu Ile Glu Leu Ser Asp Lys Tyr Asn
 50 55 60
 Asn Gly Glu His Gly Gln Tyr Ser Leu Leu Ser Lys Ile Thr Phe Asp

4115

65 70 75 80
 Lys Cys Lys Asn Phe Phe Val Cys Gln Val Cys Gly Phe Arg Ser Arg
 85 90 95
 Leu His Thr Asn Val Asn Arg His Val Ala Ile Glu His Thr Lys Ile
 100 105 110
 Phe Pro His Val Cys Asp Asp Cys Gly Lys Gly Phe Ser Ser Met Leu
 115 120 125
 Glu Tyr Cys Lys His Leu Asn Ser His Leu Ser Glu Gly Ile Tyr Leu
 130 135 140
 Cys Gln Tyr Cys Glu Tyr Ser Thr Gly Gln Ile Glu Asp Leu Lys Ile
 145 150 155 160
 His Leu Asp Phe Lys His Ser Ala Asp Leu Pro His Lys Cys Ser Asp
 165 170 175
 Cys Leu Met Arg Phe Gly Asn Glu Arg Glu Leu Ile Ser His Leu Pro
 180 185 190
 Val His Glu Thr Thr
 195

<210> 4544
 <211> 272
 <212> PRT
 <213> Homo sapiens

<400> 4544
 Gly His Ala Met Ile Asp Leu Arg Ser Asp Thr Val Thr Arg Pro Ser
 1 5 10 15
 Arg Ala Met Leu Glu Ala Met Met Ala Ala Pro Val Gly Asp Asp Val
 20 25 30
 Tyr Gly Asp Asp Pro Thr Val Asn Ala Leu Gln Asp Tyr Ala Ala Glu
 35 40 45
 Leu Ser Gly Lys Glu Ala Ala Ile Phe Leu Pro Thr Gly Thr Gln Ala
 50 55 60
 Asn Leu Val Ala Leu Leu Ser His Cys Glu Arg Gly Glu Glu Tyr Ile
 65 70 75 80
 Val Gly Gln Ala Ala His Asn Tyr Leu Phe Glu Ala Gly Gly Ala Ala
 85 90 95

4116

Val Leu Gly Ser Ile Gln Pro Gln Pro Ile Asp Ala Ala Ala Asp Gly
 100 105 110
 Thr Leu Pro Leu Asp Lys Val Ala Met Lys Ile Lys Pro Asp Asp Ile
 115 120 125
 His Phe Ala Arg Thr Lys Leu Leu Ser Leu Glu Asn Thr His Asn Gly
 130 135 140
 Lys Val Leu Pro Arg Glu Tyr Leu Lys Glu Ala Trp Glu Phe Thr Arg
 145 150 155 160
 Glu Arg Asn Leu Ala Leu His Val Asp Gly Ala Arg Ile Phe Asn Ala
 165 170 175
 Val Val Ala Tyr Gly Cys Glu Leu Lys Glu Ile Thr Gln Tyr Cys Asp
 180 185 190
 Ser Phe Thr Ile Cys Leu Ser Lys Gly Leu Gly Thr Pro Val Gly Ser
 195 200 205
 Leu Leu Val Gly Asn Arg Asp Tyr Ile Lys Arg Ala Ile Arg Trp Arg
 210 215 220
 Lys Met Thr Gly Gly Gly Met Arg Gln Ser Gly Ile Leu Ala Ala Ala
 225 230 235 240
 Gly Ile Tyr Ala Leu Lys Asn Asn Val Ala Arg Leu Gln Glu Asp His
 245 250 255
 Asp Asn Ala Ala Trp Met Ala Asp Ser Cys Val Lys Gln Ala Arg Met
 260 265 270

<210> 4545

<211> 21

<212> PRT

<213> Homo sapiens

<400> 4545

Glu Cys Lys Met Val Gln Pro Leu Trp Lys Thr Ile Trp His Ser Phe
 1 5 10 15

Asn Pro Ser Asn Ser
 20

4117

<210> 4546

<211> 368

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (196)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4546

Arg Gln Arg Arg Lys Gly Gly Gln Glu Arg Gly Arg Arg Gly Lys Met
 1 5 10 15

Ala Ala Thr Lys Arg Lys Arg Arg Gly Gly Phe Ala Val Gln Ala Lys
 20 25 30

Lys Pro Lys Arg Asn Glu Ile Asp Ala Glu Pro Pro Ala Lys Arg His
 35 40 45

Ala Thr Ala Glu Glu Val Glu Glu Glu Glu Arg Asp Arg Ile Pro Gly
 50 55 60

Pro Val Cys Lys Gly Lys Trp Lys Asn Lys Glu Arg Ile Leu Ile Phe
 65 70 75 80

Ser Ser Arg Gly Ile Asn Phe Arg Thr Arg His Leu Met Gln Asp Leu
 85 90 95

Arg Met Leu Met Pro His Ser Lys Ala Asp Thr Lys Met Asp Arg Lys
 100 105 110

Asp Lys Leu Phe Val Ile Asn Glu Val Cys Glu Met Lys Asn Cys Asn
 115 120 125

Lys Cys Ile Tyr Phe Glu Ala Lys Lys Lys Gln Asp Leu Tyr Met Trp
 130 135 140

Leu Ser Asn Ser Pro His Gly Pro Ser Ala Lys Phe Leu Val Gln Asn
 145 150 155 160

Ile His Thr Leu Ala Glu Leu Lys Met Thr Gly Asn Cys Leu Lys Gly
 165 170 175

Ser Arg Pro Leu Leu Ser Phe Asp Pro Ala Phe Asp Glu Leu Pro His
 180 185 190

Tyr Ala Leu Xaa Lys Glu Leu Leu Ile Gln Ile Phe Ser Thr Pro Arg
 195 200 205

4118

Tyr His Pro Lys Ser Gln Pro Phe Val Asp His Val Phe Thr Phe Thr
 210 215 220
 Ile Leu Asp Asn Arg Ile Trp Phe Arg Asn Phe Gln Ile Ile Glu Glu
 225 230 235 240
 Asp Ala Ala Leu Val Glu Ile Gly Pro Arg Phe Val Leu Asn Leu Ile
 245 250 255
 Lys Ile Phe Gln Gly Ser Phe Gly Gly Pro Thr Leu Tyr Glu Asn Pro
 260 265 270
 His Tyr Gln Ser Pro Asn Met His Arg Arg Val Ile Arg Ser Ile Thr
 275 280 285
 Ala Ala Lys Tyr Arg Glu Lys Gln Gln Val Lys Asp Val Gln Lys Leu
 290 295 300
 Arg Lys Lys Glu Pro Lys Thr Leu Leu Pro His Asp Pro Thr Ala Asp
 305 310 315 320
 Val Phe Val Thr Pro Ala Glu Glu Lys Pro Ile Glu Ile Gln Trp Val
 325 330 335
 Lys Pro Glu Pro Lys Val Asp Leu Lys Ala Arg Lys Lys Arg Ile Tyr
 340 345 350
 Lys Arg Gln Arg Lys Met Lys Gln Arg Met Asp Ser Gly Lys Thr Lys
 355 360 365

<210> 4547

<211> 565

<212> PRT

<213> Homo sapiens

<400> 4547

Ile Pro Gly Ser Thr His Ala Ser Ala Gly Asn Leu Asp Ser Pro Glu
 1 5 10 15
 Gly Gly Phe Asp Ala Ile Met Gln Val Ala Val Cys Gly Ser Leu Ile
 20 25 30
 Gly Trp Arg Asn Val Thr Arg Leu Leu Val Phe Ser Thr Asp Ala Gly
 35 40 45

4119

Phe His Phe Ala Gly Asp Gly Lys Leu Gly Gly Ile Val Leu Pro Asn
 50 55 60

Asp Gly Gln Cys His Leu Glu Asn Asn Met Tyr Thr Met Ser His Tyr
 65 70 75 80

Tyr Asp Tyr Pro Ser Ile Ala His Leu Val Gln Lys Leu Ser Glu Asn
 85 90 95

Asn Ile Gln Thr Ile Phe Ala Val Thr Glu Glu Phe Gln Pro Val Tyr
 100 105 110

Lys Glu Leu Lys Asn Leu Ile Pro Lys Ser Ala Val Gly Thr Leu Ser
 115 120 125

Ala Asn Ser Ser Asn Val Ile Gln Leu Ile Ile Asp Ala Tyr Asn Ser
 130 135 140

Leu Ser Ser Glu Val Ile Leu Glu Asn Gly Lys Leu Ser Glu Gly Val
 145 150 155 160

Thr Ile Ser Tyr Lys Ser Tyr Cys Lys Asn Gly Val Asn Gly Thr Gly
 165 170 175

Glu Asn Gly Arg Lys Cys Ser Asn Ile Ser Ile Gly Asp Glu Val Gln
 180 185 190

Phe Glu Ile Ser Ile Thr Ser Asn Lys Cys Pro Lys Lys Asp Ser Asp
 195 200 205

Ser Phe Lys Ile Arg Pro Leu Gly Phe Thr Glu Glu Val Glu Val Ile
 210 215 220

Leu Gln Tyr Ile Cys Glu Cys Glu Cys Gln Ser Glu Gly Ile Pro Glu
 225 230 235 240

Ser Pro Lys Cys His Glu Gly Asn Gly Thr Phe Glu Cys Gly Ala Cys
 245 250 255

Arg Cys Asn Glu Gly Arg Val Gly Arg His Cys Glu Cys Ser Thr Asp
 260 265 270

Glu Val Asn Ser Glu Asp Met Asp Ala Tyr Cys Arg Lys Glu Asn Ser
 275 280 285

Ser Glu Ile Cys Ser Asn Asn Gly Glu Cys Val Cys Gly Gln Cys Val
 290 295 300

Cys Arg Lys Arg Asp Asn Thr Asn Glu Ile Tyr Ser Gly Lys Phe Cys
 305 310 315 320

4120

Glu Cys Asp Asn Phe Asn Cys Asp Arg Ser Asn Gly Leu Ile Cys Gly
 325 330 335

Gly Asn Gly Val Cys Lys Cys Arg Val Cys Glu Cys Asn Pro Asn Tyr
 340 345 350

Thr Gly Ser Ala Cys Asp Cys Ser Leu Asp Thr Ser Thr Cys Glu Ala
 355 360 365

Ser Asn Gly Gln Ile Cys Asn Gly Arg Gly Ile Cys Glu Cys Gly Val
 370 375 380

Cys Lys Cys Thr Asp Pro Lys Phe Gln Gly Gln Thr Cys Glu Met Cys
 385 390 395 400

Gln Thr Cys Leu Gly Val Cys Ala Glu His Lys Glu Cys Val Gln Cys
 405 410 415

Arg Ala Phe Asn Lys Gly Glu Lys Lys Asp Thr Cys Thr Gln Glu Cys
 420 425 430

Ser Tyr Phe Asn Ile Thr Lys Val Glu Ser Arg Asp Lys Leu Pro Gln
 435 440 445

Pro Val Gln Pro Asp Pro Val Ser His Cys Lys Glu Lys Asp Val Asp
 450 455 460

Asp Cys Trp Phe Tyr Phe Thr Tyr Ser Val Asn Gly Asn Asn Glu Val
 465 470 475 480

Met Val His Val Val Glu Asn Pro Glu Cys Pro Thr Gly Pro Asp Ile
 485 490 495

Ile Pro Ile Val Ala Gly Val Val Ala Gly Ile Val Leu Ile Gly Leu
 500 505 510

Ala Leu Leu Leu Ile Trp Lys Leu Leu Met Ile Ile His Asp Arg Arg
 515 520 525

Glu Phe Ala Lys Phe Glu Lys Glu Lys Met Asn Ala Lys Trp Asp Thr
 530 535 540

Gly Glu Asn Pro Ile Tyr Lys Ser Ala Val Thr Thr Val Val Asn Pro
 545 550 555 560

Lys Tyr Glu Gly Lys
 565

<210> 4548

4121

<211> 60

<212> PRT

<213> Homo sapiens

<400> 4548

Val	Thr	Ser	Lys	Thr	Gln	Val	Gly	Leu	Phe	Lys	Phe	Leu	Lys	Phe	Glu
1				5				10					15		

Ile	Phe	Tyr	Leu	Gln	Lys	Ile	Val	Leu	Cys	Phe	Ile	Ile	Ser	Gln	Met
			20					25					30		

Ser	Val	Arg	Phe	Leu	Ser	Thr	Asn	Asp	His	Ala	Ser	Ile	Phe	Phe	Ser
		35					40					45			

Phe	Lys	Pro	Pro	Asn	Gln	Tyr	Phe	Ser	Phe	Lys	Phe
	50				55					60	

<210> 4549

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4549

Thr	Arg	His	Lys	Ala	Gln	Leu	Ile	Phe	Val	Phe	Leu	Val	Glu	Thr	Gly
1				5				10					15		

Phe	Asp	Tyr	Val	Gly	Gln	Ala	Gly	Leu	Lys	Leu	Leu	Thr	Ser	Ser	Asp
			20					25					30		

Pro	Pro	Ala	Ser	Ala	Ser	Gln	Arg	Xaa	Gly	Thr	Ile	Asp	Met	Ser	His
			35				40					45			

Arg	Ala	Trp	Pro	Ser
			50	

<210> 4550

<211> 166

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4122

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4550

Ala	Gln	Xaa	Leu	Ser	Ser	Pro	Val	Arg	Gly	Ile	Ser	Gly	Glu	Gln	Ser
1				5					10					15	

Thr	Xaa	Gly	Ser	Phe	Pro	Leu	Arg	Tyr	Val	Gln	Asp	Gln	Val	Ala	Ala
			20					25					30		

Pro	Phe	Gln	Leu	Ser	Asn	His	Thr	Gly	Arg	Ile	Lys	Val	Val	Phe	Thr
		35					40					45			

Pro	Ser	Ile	Cys	Lys	Val	Thr	Cys	Thr	Lys	Gly	Ser	Cys	Gln	Asn	Ser
	50					55					60				

Cys	Glu	Lys	Gly	Asn	Thr	Thr	Thr	Leu	Ile	Ser	Glu	Asn	Gly	His	Ala
65					70					75					80

Ala	Asp	Thr	Leu	Thr	Ala	Thr	Asn	Phe	Arg	Val	Val	Ile	Cys	His	Leu
				85					90					95	

Pro	Cys	Met	Asn	Gly	Gly	Gln	Cys	Ser	Ser	Arg	Asp	Lys	Cys	Gln	Cys
			100					105					110		

Pro	Pro	Asn	Phe	Thr	Gly	Lys	Leu	Cys	Gln	Ile	Pro	Val	His	Gly	Ala
		115					120					125			

Ser	Val	Xaa	Lys	Leu	Tyr	Gln	His	Ser	Gln	Gln	Pro	Gly	Lys	Ala	Leu
	130					135						140			

Gly	Thr	His	Val	Ile	His	Ser	Thr	His	Thr	Leu	Pro	Leu	Thr	Val	Thr
145					150					155					160

Ser	Gln	Gln	Glu	Ser	Lys
				165	

<210> 4551

<211> 60

4123

<212> PRT

<213> Homo sapiens

<400> 4551

Cys Val Pro Ser Thr Ser Ser Pro Gly Ile Ile Leu Ser Leu Ala Leu
 1 5 10 15
 Ala Gly Ile Leu Gly Ile Cys Ile Val Val Val Val Ser Ile Trp Leu
 20 25 30
 Phe Arg Arg Lys Ser Ile Lys Lys Gly Asp Asn Lys Gly Val Ile Tyr
 35 40 45
 Lys Pro Ala Thr Lys Met Glu Thr Glu Ala His Ala
 50 55 60

<210> 4552

<211> 99

<212> PRT

<213> Homo sapiens

<400> 4552

His Cys Ile Leu Met Leu Phe Glu Asn Ala Ile Tyr Ile Val Lys Lys
 1 5 10 15
 Arg Ala Gly Ala Pro Ala Ala Leu Val Pro Trp Gly Ser His Pro Ser
 20 25 30
 Pro Gly Gly Leu Leu Gly Gly Leu Arg Arg Trp Ala Thr Glu Gly Gln
 35 40 45
 Ala Gly Ala Ala His Ser Pro His Glu Gly Ile Ser Val Ser Tyr Ser
 50 55 60
 Val Gln Arg Arg Gly Lys Thr Gln Cys Pro Gly Phe Ser Pro Pro Glu
 65 70 75 80
 Met Lys Asp Thr Leu Tyr Phe Leu Pro Asn Val Pro Ala Ser Arg Phe
 85 90 95
 Ile Met Asn

<210> 4553

<211> 73

<212> PRT

<213> Homo sapiens

4124

<400> 4553

Gly Gly Trp Phe Tyr Pro Phe Cys Leu Leu Phe Gly Thr Gln Leu Val
1 5 10 15

Phe Phe Gly Leu Leu Ser Ser Gly Ser Arg Ala Val Leu Ser Asn Thr
20 25 30

Val Thr Thr Cys Gly Cys Leu Lys Leu Ser Gln Leu Lys Ser His Lys
35 40 45

Ile Lys Asn Ser Phe Leu Ser Cys Thr Asn His Val Ser Arg Gly Val
50 55 60

Thr Val Cys Ser Ser Trp Leu Leu Tyr
65 70

<210> 4554

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4126

Arg Ser Pro Glu Gly Thr Pro Gln Lys Ile Arg Gln Leu Ile Asp Glu
 20 25 30
 Gly Ile Ala Pro Glu Glu Gly Gly Val Asp Ala Lys Asp Thr Ser Ala
 35 40 45
 Thr Ser Gln Ser Val Asn Gly Ser Pro Gln Ala Glu Gln Pro Ser Leu
 50 55 60
 Glu Ser Thr Ser Lys Glu Ala Phe Phe Ser Arg Val Glu Thr Phe Ser
 65 70 75 80
 Ser Leu Lys Trp Ala Gly Lys Pro Phe Glu Leu Ser Pro Leu Val Cys
 85 90 95
 Ala Lys Tyr Gly Trp Val Thr Val Glu Cys Asp Met Leu Lys Cys Ser
 100 105 110
 Ser Cys Gln Ala Phe Leu Cys Ala Ser Leu Gln Pro Ala Phe Asp Phe
 115 120 125
 Asp Arg Tyr Lys Gln Arg Cys Ala Glu Leu Lys Lys Ala Leu Cys Thr
 130 135 140
 Ala His Glu Lys Phe Cys Phe Trp Pro Asp Ser Pro Ser Pro Asp Arg
 145 150 155 160
 Phe Gly Met Leu Pro Leu Asp Glu Pro Ala Ile Leu Val Ser Glu Phe
 165 170 175
 Leu Asp Arg Phe Gln Ser Leu Cys His Leu Asp Leu Gln Leu Pro Ser
 180 185 190
 Leu Arg Pro Glu Asp Leu Lys Thr Met Cys Leu Thr Glu Asp Lys Ile
 195 200 205
 Ser Leu Leu Leu His Leu Leu Glu Asp Glu Leu Asp His Arg Thr Asp
 210 215 220
 Glu Arg Lys Thr Thr Ile Lys Leu Gly Ser Asp Ile Gln Val His Val
 225 230 235 240
 Thr Ala Cys Ile Leu Ser Val Cys Gly Trp Ala Cys Ser Ser Ser Leu
 245 250 255
 Glu Ser Met Gln Leu Ser Leu Ile Xaa Cys Ser Gln Cys Met Xaa Lys
 260 265 270
 Val Gly Leu Trp Gly Phe Gln Gln Ile Glu Ser Ser Met Thr Asp Leu
 275 280 285

4127

Asp Ala Ser Leu Pro Asp Gln Leu Pro Asn Pro Arg Pro
 290 295 300

<210> 4556

<211> 163

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4556

Xaa Glu Pro Lys Pro Ser Val Glu Pro Val Lys Ser Ile Ser Ser Met
 1 5 10 15

Glu Leu Lys Thr Glu Pro Phe Asp Asp Phe Leu Phe Pro Ala Ser Ser
 20 25 30

Arg Pro Ser Gly Ser Glu Thr Ala Arg Ser Val Pro Asp Met Asp Leu
 35 40 45

Ser Gly Ser Phe Tyr Ala Ala Asp Trp Glu Pro Leu His Ser Gly Ser
 50 55 60

Leu Gly Met Gly Pro Met Ala Gln Ser Trp Ser Pro Cys Ala Leu Arg
 65 70 75 80

Trp Ser Pro Val Leu Pro Ala Ala Leu Leu Thr Arg Leu Pro Ser Ser
 85 90 95

Ser Pro Thr Pro Arg Leu Thr Pro Ser Pro Ala Val Gln Leu Pro Thr
 100 105 110

Ala Arg Ala Ala Ala Ala Met Ser Leu Pro Leu Thr Arg Ser Ala His
 115 120 125

Pro Arg Cys Trp Pro Cys Glu Gly Ala Gly Lys Gly Arg Gln Pro Ala
 130 135 140

Pro Thr Ser Ala Thr Ala Arg Ala Gly Ala Leu Gln Arg Gly Glu Thr
 145 150 155 160

His Leu Pro

4128

<210> 4557

<211> 89

<212> PRT

<213> Homo sapiens

<400> 4557

Gln Thr Ala Ser Val Trp Pro Cys Pro His Ser Tyr Met Ser Leu Ser
 1 5 10 15

Thr Ser Thr Ser Leu Arg Ser Leu Thr Ser Arg Trp Thr Leu Tyr Ser
 20 25 30

His Val His Leu Ile Pro Asp Glu Leu Trp Ser Tyr Leu Asp Ala Gln
 35 40 45

Ile Arg Gly Phe Tyr Leu Ser Ile Gln Cys Ser Leu Arg Phe Gln Asp
 50 55 60

Ile Ser Pro Gln Ala Leu Gly Phe Thr Leu Gly Ile Arg Arg Leu His
 65 70 75 80

Val Ser Leu Glu Met Thr Cys Lys Ile
 85

<210> 4558

<211> 353

<212> PRT

<213> Homo sapiens

<400> 4558

Gly Ser Leu Asp Leu Trp Arg Gly Ala Glu Leu Ser Pro Gly His Ser
 1 5 10 15

Thr Leu Phe Thr Leu Cys Ala Cys Ala Lys Gly Ala Met Ala Ala Ser
 20 25 30

Cys Val Leu Leu His Thr Gly Gln Lys Met Pro Leu Ile Gly Leu Gly
 35 40 45

Thr Trp Lys Ser Glu Pro Gly Gln Val Lys Ala Ala Val Lys Tyr Ala
 50 55 60

Leu Ser Val Gly Tyr Arg His Ile Asp Cys Ala Ala Ile Tyr Gly Asn
 65 70 75 80

Glu Pro Glu Ile Gly Glu Ala Leu Lys Glu Asp Val Gly Pro Gly Lys
 85 90 95

4129

Ala Val Pro Arg Glu Glu Leu Phe Val Thr Ser Lys Leu Trp Asn Thr
 100 105 110
 Lys His His Pro Glu Asp Val Glu Pro Ala Leu Arg Lys Thr Leu Ala
 115 120 125
 Asp Leu Gln Leu Glu Tyr Leu Asp Leu Tyr Leu Met His Trp Pro Tyr
 130 135 140
 Ala Phe Glu Arg Gly Asp Asn Pro Phe Pro Lys Asn Ala Asp Gly Thr
 145 150 155 160
 Ile Cys Tyr Asp Ser Thr His Tyr Lys Glu Thr Trp Lys Ala Leu Glu
 165 170 175
 Ala Leu Val Ala Lys Gly Leu Val Gln Ala Leu Gly Leu Ser Asn Phe
 180 185 190
 Asn Ser Arg Gln Ile Asp Asp Ile Leu Ser Val Ala Ser Val Arg Pro
 195 200 205
 Ala Val Leu Gln Val Glu Cys His Pro Tyr Leu Ala Gln Asn Glu Leu
 210 215 220
 Ile Ala His Cys Gln Ala Arg Gly Leu Glu Val Thr Ala Tyr Ser Pro
 225 230 235 240
 Leu Gly Ser Ser Asp Arg Ala Trp Arg Asp Pro Asp Glu Pro Val Leu
 245 250 255
 Leu Glu Glu Pro Val Val Leu Ala Leu Ala Glu Lys Tyr Gly Arg Ser
 260 265 270
 Pro Ala Gln Ile Leu Leu Arg Trp Gln Val Gln Arg Lys Val Ile Cys
 275 280 285
 Ile Pro Lys Ser Ile Thr Pro Ser Arg Ile Leu Gln Asn Ile Lys Val
 290 295 300
 Phe Asp Phe Thr Phe Ser Pro Glu Glu Met Lys Gln Leu Asn Ala Leu
 305 310 315 320
 Asn Lys Asn Trp Arg Tyr Ile Val Pro Met Leu Thr Val Asp Gly Lys
 325 330 335
 Arg Val Pro Arg Asp Ala Gly His Pro Leu Tyr Pro Phe Asn Asp Pro
 340 345 350

Tyr

4130

<210> 4559

<211> 275

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (272)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (273)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4559

Gly	Arg	Val	Gly	Gly	Arg	Val	Gly	Pro	Arg	Asp	Pro	Lys	Ala	Pro	Gly
1				5					10					15	

Gln	Phe	Gly	Arg	Pro	Val	Val	Val	Pro	His	Gly	Lys	Glu	Lys	Glu	Ala
			20					25					30		

Glu	Arg	Arg	Trp	Lys	Glu	Gly	Asn	Phe	Asn	Val	Tyr	Leu	Ser	Asp	Leu
		35					40					45			

Ile	Pro	Val	Asp	Arg	Ala	Ile	Glu	Asp	Thr	Arg	Pro	Ala	Gly	Cys	Ala
		50				55					60				

Glu	Gln	Leu	Val	His	Asn	Asn	Leu	Pro	Thr	Thr	Ser	Val	Ile	Met	Cys
	65				70					75					80

Phe	Val	Asp	Glu	Val	Trp	Ser	Thr	Leu	Leu	Arg	Ser	Val	His	Ser	Val
				85					90					95	

Ile	Asn	Arg	Ser	Pro	Pro	His	Leu	Ile	Lys	Glu	Ile	Leu	Leu	Val	Asp
			100					105					110		

Asp	Phe	Ser	Thr	Lys	Asp	Tyr	Leu	Lys	Asp	Asn	Leu	Asp	Lys	Tyr	Met
		115					120					125			

Ser	Gln	Phe	Pro	Lys	Val	Arg	Ile	Leu	Arg	Leu	Lys	Glu	Arg	His	Gly
	130					135					140				

Leu	Ile	Arg	Ala	Arg	Leu	Ala	Gly	Ala	Gln	Asn	Ala	Thr	Gly	Asp	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4131

145 150 155 160
 Leu Thr Phe Leu Asp Ser His Val Glu Cys Asn Val Gly Trp Leu Glu
 165 170 175
 Pro Leu Leu Glu Arg Val Tyr Leu Ser Arg Lys Lys Val Ala Cys Pro
 180 185 190
 Val Ile Glu Val Ile Asn Asp Lys Asp Met Ser Tyr Met Thr Val Asp
 195 200 205
 Asn Phe Gln Arg Gly Ile Phe Val Trp Pro Met Asn Phe Gly Trp Arg
 210 215 220
 Thr Ile Pro Pro Asp Val Ile Ala Lys Asn Arg Ile Lys Glu Thr Asp
 225 230 235 240
 Thr Ile Arg Cys Pro Val Met Ala Gly Gly Ile Gly Phe Tyr Cys Gln
 245 250 255
 Lys Leu Leu Phe Leu Asn Leu Glu His Thr Asn Pro Trp Pro Xaa Xaa
 260 265 270
 Xaa Trp Gly
 275

<210> 4560

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4560

Ala His Leu Ala Ala Ser Leu Pro Leu Gln Ala Gln Pro Ser Ala Met
 1 5 10 15
 Ala Cys Pro Leu Asp Gln Ala Ile Gly Leu Leu Val Ala Ile Phe His
 20 25 30
 Lys Tyr Ser Gly Arg Glu Gly Asp Lys His Thr Leu Ser Lys Lys Glu
 35 40 45
 Leu Lys Glu Leu Ile Gln Lys Glu Leu Thr Xaa Gly Ser Lys Leu Gln
 50 55 60

4132

Asp Ala Glu Ile Ala Arg Leu Met Glu Asp Leu Asp Arg Asn Lys Asp
 65 70 75 80

Gln Glu Val Asn Phe Gln Glu Tyr Val Thr Phe Leu Gly Ala Leu Ala
 85 90 95

Leu Ile Tyr Asn Glu Ala Leu Lys Gly
 100 105

<210> 4561

<211> 176

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4561

Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Ala Ala Ala
 1 5 10 15

Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Ala
 20 25 30

Gly His Glu Lys Leu Pro Val His Val Glu Asp Ala Leu Thr Tyr Leu
 35 40 45

Asp Gln Val Lys Ile Arg Phe Gly Ser Asp Pro Ala Thr Tyr Asn Gly
 50 55 60

Phe Leu Glu Ile Met Lys Glu Phe Lys Ser Gln Ser Ile Asp Thr Pro
 65 70 75 80

Gly Val Ile Arg Arg Val Ser Gln Leu Phe His Glu His Pro Asp Leu
 85 90 95

Ile Val Gly Phe Asn Ala Phe Leu Pro Leu Gly Tyr Arg Ile Asp Ile
 100 105 110

Pro Lys Asn Gly Lys Leu Asn Ile Gln Ser Pro Leu Thr Ser Gln Glu
 115 120 125

Asn Ser His Asn His Gly Asp Gly Ala Glu Asp Phe Lys Gln Gln Val
 130 135 140

Pro Xaa Lys Glu Asp Lys Pro Gln Val Pro Leu Glu Ser Asp Ser Val
 145 150 155 160

4133

Glu Phe Asn Asn Ala Ile Ser Tyr Val Asn Lys Ile Lys Thr Arg Phe
 165 170 175

<210> 4562

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4562

His Glu Xaa Arg Glu His Ala Gly Pro Lys Met Ala Ala Ser Arg Tyr
 1 5 10 15

Arg Arg Phe Leu Lys Leu Cys Glu Glu Trp Pro Val Asp Glu Thr Lys
 20 25 30

Arg Gly Arg Asp Leu Gly Ala Tyr Leu Arg Gln Arg Val Ala Gln Ala
 35 40 45

Phe Arg Glu Gly Glu Asn Thr Gln Val Ala Glu Pro Glu Ala Cys Asp
 50 55 60

Gln Met Tyr Glu Ser Leu Ala Arg Leu His Ser Asn Tyr Tyr Lys His
 65 70 75 80

Lys Tyr Pro Arg Pro Arg Asp Thr Ser Phe Ser Gly Leu Ser Leu Glu
 85 90 95

Glu Tyr Lys Leu Ile Leu Ser Thr Asp Thr Leu Glu Glu Leu Lys Glu
 100 105 110

Ile Asp Lys Gly Met Trp Lys Lys Leu Gln Glu Lys Phe Ala Pro Lys
 115 120 125

Gly Pro Glu Glu Asp His Lys Ala
 130 135

<210> 4563

<211> 283

4134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4563

Lys Arg Lys Ile Met Ile Lys Arg His Glu Val Glu Gln Gln Asn Ile
 1 5 10 15

Arg Glu Glu Leu Asn Lys Lys Arg Thr Gln Lys Glu Met Glu His Ala
 20 25 30

Met Leu Ile Arg His Asp Glu Ser Xaa Arg Glu Leu Glu Tyr Arg Gln
 35 40 45

Leu His Thr Leu Gln Lys Leu Arg Met Asp Leu Ile Arg Leu Gln His
 50 55 60

Gln Thr Glu Leu Glu Asn Gln Leu Glu Tyr Asn Lys Arg Arg Glu Arg
 65 70 75 80

Glu Leu His Arg Lys His Val Met Glu Leu Arg Gln Gln Pro Lys Asn
 85 90 95

Leu Lys Ala Met Xaa Met Gln Ile Lys Lys Gln Phe Gln Asp Thr Cys
 100 105 110

Lys Val Gln Thr Lys Gln Tyr Lys Ala Leu Lys Asn His Gln Leu Glu
 115 120 125

Val Thr Pro Lys Asn Glu His Lys Thr Ile Leu Lys Thr Leu Lys Asp
 130 135 140

Glu Gln Thr Arg Lys Leu Ala Ile Leu Ala Glu Gln Tyr Glu Gln Ser
 145 150 155 160

Ile Asn Glu Met Met Ala Ser Gln Ala Leu Arg Leu Asp Glu Ala Gln
 165 170 175

Glu Ala Glu Cys Gln Ala Leu Arg Leu Gln Leu Gln Gln Glu Met Glu
 180 185 190

Leu Leu Asn Ala Tyr Gln Ser Lys Ile Lys Met Gln Thr Glu Ala Gln

4135

195	200	205
His Glu Arg Glu Leu Gln Lys Leu Glu Gln Arg Val Ser Leu Arg Arg		
210	215	220
Ala His Leu Glu Gln Lys Ile Glu Glu Glu Leu Ala Ala Leu Gln Lys		
225	230	235 240
Glu Arg Ser Glu Arg Ile Lys Asn Leu Leu Glu Arg Gln Glu Arg Glu		
245	250	255
Ile Glu Thr Phe Asp Met Glu Ser Leu Arg Met Gly Phe Gly Asn Leu		
260	265	270
Val Thr Leu Asp Phe Pro Lys Glu Asp Tyr Arg		
275	280	

<210> 4564

<211> 465

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (203)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (460)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (461)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4564

Lys Asn Met Glu Thr Glu Gln Pro Glu Glu Thr Phe Pro Asn Thr Glu
1 5 10 15

Thr Asn Gly Glu Phe Gly Lys Arg Pro Ala Glu Asp Met Glu Glu Glu
20 25 30

Gln Ala Phe Lys Arg Ser Arg Asn Thr Asp Glu Met Val Glu Leu Arg
35 40 45

Ile Leu Leu Gln Ser Lys Asn Ala Gly Ala Val Ile Gly Lys Gly Gly
50 55 60

4136

Lys Asn Ile Lys Ala Leu Arg Thr Asp Tyr Asn Ala Ser Val Ser Val
 65 70 75 80
 Pro Asp Ser Ser Gly Pro Glu Arg Ile Leu Ser Ile Ser Ala Asp Ile
 85 90 95
 Glu Thr Ile Gly Glu Ile Leu Lys Lys Ile Ile Pro Thr Leu Glu Glu
 100 105 110
 Gly Leu Gln Leu Pro Ser Pro Thr Ala Thr Ser Gln Leu Pro Leu Glu
 115 120 125
 Ser Asp Ala Val Glu Cys Leu Asn Tyr Gln His Tyr Lys Gly Ser Asp
 130 135 140
 Phe Asp Cys Glu Leu Arg Leu Leu Ile His Gln Ser Leu Ala Gly Gly
 145 150 155 160
 Ile Ile Gly Val Lys Gly Ala Lys Ile Lys Glu Leu Arg Glu Asn Thr
 165 170 175
 Gln Thr Thr Ile Lys Leu Phe Gln Glu Cys Cys Pro His Ser Thr Asp
 180 185 190
 Arg Val Val Leu Ile Gly Gly Lys Pro Asp Xaa Val Val Glu Cys Ile
 195 200 205
 Lys Ile Ile Leu Asp Leu Ile Ser Glu Ser Pro Ile Lys Gly Arg Ala
 210 215 220
 Gln Pro Tyr Asp Pro Asn Phe Tyr Asp Glu Thr Tyr Asp Tyr Gly Gly
 225 230 235 240
 Phe Thr Met Met Phe Asp Asp Arg Arg Gly Arg Pro Val Gly Phe Pro
 245 250 255
 Met Arg Gly Arg Gly Gly Phe Asp Arg Met Pro Pro Gly Arg Gly Gly
 260 265 270
 Arg Pro Met Pro Pro Ser Arg Arg Asp Tyr Asp Asp Met Ser Pro Arg
 275 280 285
 Arg Gly Pro Pro Pro Pro Pro Pro Gly Arg Gly Gly Arg Gly Gly Ser
 290 295 300
 Arg Ala Arg Asn Leu Pro Leu Pro Pro Pro Pro Pro Arg Gly Gly
 305 310 315 320
 Asp Leu Met Ala Tyr Asp Arg Arg Gly Arg Pro Gly Asp Arg Tyr Asp
 325 330 335

4137

Gly Met Val Gly Phe Ser Ala Asp Glu Thr Trp Asp Ser Ala Ile Asp
 340 345 350
 Thr Trp Ser Pro Ser Glu Trp Gln Met Ala Tyr Glu Pro Gln Gly Gly
 355 360 365
 Ser Gly Tyr Asp Tyr Ser Tyr Ala Gly Gly Arg Gly Ser Tyr Gly Asp
 370 375 380
 Leu Gly Gly Pro Ile Ile Thr Thr Gln Val Thr Ile Pro Lys Asp Leu
 385 390 395 400
 Ala Gly Ser Ile Ile Gly Lys Gly Gly Gln Arg Ile Lys Gln Ile Arg
 405 410 415
 His Glu Ser Gly Ala Ser Ile Lys Ile Asp Glu Pro Leu Glu Gly Ser
 420 425 430
 Glu Asp Arg Ile Ile Thr Ile Thr Gly Thr Gln Asp Gln Ile Gln Asn
 435 440 445
 Ala Gln Tyr Leu Leu Gln Asn Ser Val Ser Ser Xaa Xaa Leu Ala Leu
 450 455 460
 Cys
 465

<210> 4565

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4565

Gln Leu Gly Pro Val Val Gly Gly Trp Tyr Lys Val Leu Asp Arg Phe
 1 5 10 15
 Ile Pro Gly Thr Thr Lys Val Asp Ala Leu Lys Lys Met Leu Leu Asp
 20 25 30
 Gln Gly Gly Phe Ala Pro Cys Phe Leu Gly Cys Phe Leu Pro Leu Val
 35 40 45

Gly Ala Leu Asn Gly Leu Ser Ala Gln Asp Asn Trp Pro Asn Tyr Ser

4138

50 55 60

Gly Ile Ile Leu Met Pro Leu Ser Pro Thr Thr Ile Tyr Gly Leu Leu

65 70 75 80

Cys Xaa

<210> 4566
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 4566

Glu Gln Lys Ser Ile Gln Asp Leu Gln Ala Leu Leu Trp Met Arg Leu

1 5 10 15

Ile Thr Met Glu Ala Ser Asn Thr His Leu Ser Met Ala Leu Ile Phe

20 25 30

Ser Thr Ser Trp Pro Leu Lys Met Thr Tyr Asn Phe Ser Val Cys Phe

35 40 45

Thr Ile Phe Tyr Lys Glu Asn Ser Ile Leu Trp Leu Ile Glu His

50 55 60

<210> 4567
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 4567

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Gln Arg Arg Gly Gly

1 5 10 15

Val Arg Glu Asn Met Leu Val Lys Tyr Ala Gly Arg Leu Gly Asp Thr

20 25 30

Lys Gln Arg Phe Arg His Ser Lys Ala Gly Met Arg Ser Ser Lys Leu

35 40 45

Cys Phe Asn Lys Leu His Trp Arg Val Pro Tyr Ser Leu Lys Phe Gly

50 55 60

Asn His Asp Pro Glu Pro Gly Trp Ala

65 70

4139

<210> 4568

<211> 98

<212> PRT

<213> Homo sapiens

<400> 4568

Arg Thr Lys Asn Lys Thr Leu Ile Pro Thr Phe Ile Ser Thr Leu Ala
 1 5 10 15

Lys Thr Gly Leu Ala Phe Phe Ser Asn Ser Ser Phe Ile Ser Ser Leu
 20 25 30

Pro Cys Pro Ser Leu Pro Phe Leu Ser Gly Ile Gly Ser Val Leu Pro
 35 40 45

Ile His Met Ala Ala Ser Leu Ile Ala Leu Val Gln Gly Ile Arg Tyr
 50 55 60

Cys Ala Phe Trp Cys Gln Val Gln Ser Gln Val Pro Ile Tyr Glu Pro
 65 70 75 80

Val Tyr Lys Lys Lys Lys Ile Gln Val Phe Glu Gly Glu Thr Leu His
 85 90 95

Cys Glu

<210> 4569

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4569

Ala Leu Gly Phe Ser Ala Glu Gly Ala Pro Phe Pro Leu Asp Gly Ser
 1 5 10 15

Cys His Val Ile Phe Glu Asn Ser Trp Thr Ala Pro Glu Glu Ala Leu
 20 25 30

Phe Ser Ser Arg Lys Leu Asp Gly Gly Ser Gln Lys Trp Leu Ile Gly
 35 40 45

4140

Arg Gly Gln Ala Ser Phe Gln Gly Ser Ala Val Pro Ser Trp Phe Arg
 50 55 60

Glu Gly Arg Ala Trp Leu Ser Leu Ala Leu Ser Leu Ser Pro Cys Leu
 65 70 75 80

Ser Ile Thr Thr Phe Pro Pro Glu Glu Xaa Asn Tyr Leu Pro Cys Lys
 85 90 95

Ala Arg Phe Tyr Thr Asp Phe Thr Asn Cys Ala Lys Asn Arg Pro Cys
 100 105 110

Ser Gln Lys Ala Gln Cys Phe Cys Lys Glu
 115 120

<210> 4570

<211> 89

<212> PRT

<213> Homo sapiens

<400> 4570

Pro Ser Cys Gln Arg Pro Lys Ser Val Ser Trp Cys His Val His Thr
 1 5 10 15

Pro Cys His Phe Thr Leu His Leu Ser Pro Ser Phe Pro Met His Ala
 20 25 30

Tyr Ser Glu His Pro Cys Val Gly Pro Ser Ser Ala Ser Arg Ala Cys
 35 40 45

Ser Ala Val Gly Leu Phe Cys Gly Arg Lys Glu Ala Val Ser Ala Phe
 50 55 60

Ser Asp Gly Thr Gly Val Glu Gly Arg Ser Cys Ile Val Ala Leu Leu
 65 70 75 80

Asn Ser Pro Phe Cys Ser Ile Leu Val
 85

<210> 4571

<211> 148

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

4141

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4571

Ser Asn Val Ile Arg Asn Glu Gln Leu Pro Leu Gln Tyr Leu Ala Asp
1 5 10 15

Val Asp Thr Ser Asp Glu Glu Ser Ile Arg Ala His Val Met Ala Ser
20 25 30

His His Ser Lys Arg Arg Gly Arg Ala Ser Ser Glu Ser Gln Gly Leu
35 40 45

Gly Ala Xaa Xaa Arg Thr Xaa Ala Asp Val Glu Glu Glu Ala Leu Arg
50 55 60

Arg Lys Leu Glu Glu Leu Thr Ser Asn Val Ser Asp Gln Glu Thr Ser
65 70 75 80

Ser Glu Glu Glu Glu Ser Lys Asp Glu Lys Ala Glu Pro Asn Arg Asp
85 90 95

Lys Ser Val Gly Pro Leu Pro Gln Ala Asp Pro Glu Val Ala Arg Leu
100 105 110

Pro Ile Lys Pro Thr Asp Arg Lys Lys Ala Pro Arg Thr Leu Gly Thr
115 120 125

Pro Ser Ser Thr Thr Gly Pro Gln Met Arg Ser Cys Gln Ser Trp Arg
130 135 140

Thr Glu Trp Gln
145

<210> 4572

<211> 231

<212> PRT

<213> Homo sapiens

<400> 4572

4142

Ala Leu Ser Pro Ala Met Val Val Pro Glu Asp Gln Leu Thr Arg Trp
 1 5 10 15
 His Pro Arg Phe Asn Val Asp Glu Val Pro Asp Ile Glu Pro Ala Ala
 20 25 30
 Leu Pro Gln Pro Pro Ala Thr Glu Lys Leu Thr Thr Ala Gln Glu Val
 35 40 45
 Leu Ala Arg Ala Arg Asn Leu Ile Ser Pro Arg Met Glu Lys Ala Leu
 50 55 60
 Ser Gln Leu Ala Leu Arg Ser Ala Ala Pro Ser Ser Pro Gly Ser Pro
 65 70 75 80
 Arg Pro Ala Leu Pro Ala Thr Pro Pro Ala Thr Pro Pro Ala Ala Ser
 85 90 95
 Pro Ser Ala Leu Lys Gly Val Ser Gln Asp Leu Leu Glu Arg Ile Arg
 100 105 110
 Ala Lys Glu Ala Gln Lys Gln Leu Ala Gln Met Thr Arg Cys Pro Glu
 115 120 125
 Gln Glu Gln Arg Leu Gln Arg Leu Glu Arg Leu Pro Glu Leu Ala Arg
 130 135 140
 Val Leu Arg Ser Val Phe Val Ser Glu Arg Lys Pro Ala Leu Ser Met
 145 150 155 160
 Glu Val Ala Cys Ala Arg Met Val Gly Ser Cys Cys Thr Ile Met Ser
 165 170 175
 Pro Gly Glu Met Glu Lys His Leu Leu Leu Leu Ser Glu Leu Leu Pro
 180 185 190
 Asp Trp Leu Ser Leu His Arg Ile Arg Thr Asp Thr Tyr Val Lys Leu
 195 200 205
 Asp Lys Ala Ala Asp Leu Ala His Ile Thr Ala Arg Leu Ala His Gln
 210 215 220
 Thr Arg Ala Glu Glu Gly Leu
 225 230

<210> 4573

<211> 102

<212> PRT

<213> Homo sapiens

4143

<400> 4573

Asp Pro Arg Val Arg His Ala Ser Gly Gly Phe Ser Leu Gly Gly Gln
 1 5 10 15

Thr Lys Trp Gln Trp Gly Pro Gly Cys Pro Leu Leu Arg Asn Gly Glu
 20 25 30

Leu Phe Ser Pro Val Leu Leu Trp Gly Leu Pro Cys Gly Thr Lys Cys
 35 40 45

Leu Gly Glu Glu Leu Leu Ala Gly Leu Gln Leu Leu Phe Val Arg Gly
 50 55 60

Gln Leu Gly Leu Val His Pro Cys Ser Glu Leu Ala Pro Lys Arg Ala
 65 70 75 80

Met Leu Asn Ser Ser Pro Ser Pro Ser Arg Gln Pro Leu Ser Leu His
 85 90 95

Ala Arg Gly Ile Gln Leu
 100

<210> 4574

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4574

Arg Ser Ile Gly Gly Phe Phe Pro Ala Gly Leu Thr Thr Leu Leu Ser
 1 5 10 15

Gly Leu Lys Pro Phe His Thr Phe Ile Leu Phe Phe Asn Gln Lys Ser
 20 25 30

Phe Ser Tyr Lys Ile Asn Phe Gly Gln Thr Xaa Lys Lys Lys Lys Lys
 35 40 45

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys

4144

50 55 60
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 65 70 75 80
 Lys Lys Lys Lys Gly Gly Pro Xaa
 85

 <210> 4575
 <211> 240
 <212> PRT
 <213> Homo sapiens

 <400> 4575
 Pro Thr Ala His Cys Arg Arg Leu Gly Ala Ala Glu Ala Arg Gly Ala
 1 5 10 15
 Arg Ser Trp Arg Leu Pro Val Pro Arg Leu Cys Arg Pro His Ser Arg
 20 25 30
 Gly Ala Lys Gly Gly Arg Pro Ala Ser Gly Pro Leu Pro Ser Leu Ser
 35 40 45
 Leu Arg Cys Cys Glu Arg Arg Pro Leu Arg Arg Arg Pro Ala Thr Gly
 50 55 60
 Ala Met Ser Ala Asn Glu Asp Gln Glu Met Glu Leu Glu Ala Leu Arg
 65 70 75 80
 Ser Ile Tyr Glu Gly Asp Glu Ser Phe Arg Glu Leu Ser Pro Val Ser
 85 90 95
 Phe Gln Tyr Arg Ile Gly Glu Asn Gly Asp Pro Lys Ala Phe Leu Ile
 100 105 110
 Glu Ile Ser Trp Thr Glu Thr Tyr Pro Gln Thr Pro Pro Ile Leu Ser
 115 120 125
 Met Asn Ala Phe Phe Asn Asn Thr Ile Ser Ser Ala Val Lys Gln Ser
 130 135 140
 Ile Leu Ala Lys Leu Gln Glu Ala Val Glu Ala Asn Leu Gly Thr Ala
 145 150 155 160
 Met Thr Tyr Thr Leu Phe Glu Tyr Ala Lys Asp Asn Lys Glu Gln Phe
 165 170 175
 Met Glu Asn His Asn Pro Ile Asn Ser Ala Thr Ser Ile Ser Asn Ile
 180 185 190

4145

Ile Ser Ile Glu Thr Pro Asn Thr Ala Pro Ser Ser Lys Lys Lys Asp
 195 200 205

Lys Lys Glu Gln Leu Ser Lys Ala Gln Lys Arg Asn Trp Gln Thr Lys
 210 215 220

Gln Ile Thr Lys Glu Asn Phe Leu Glu Ala Gly Thr Gly Leu Met Leu
 225 230 235 240

<210> 4576

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4576

Asp Ala Trp Xaa Xaa Lys Lys Glu Lys Glu Lys Lys Arg Lys
 1 5 10 15

Gly Thr Ser Asp Met Thr Ala Cys Met Lys Ser Asn Arg Val Thr Pro
 20 25 30

Val Lys Leu Lys Ser Arg Ala Val Asp Ile Leu Ser Asn Gln Gln Glu
 35 40 45

Val Ser Arg Asn Gln Ala Val Gln Leu Leu Leu Ser Ala Ile Val Ser
 50 55 60

Ser Gln Lys Met His Asp Asp Gly Val Val Gly Glu Gly Gln Phe Ser
 65 70 75 80

Ile Leu Phe Lys Ser Lys Leu Pro Glu
 85

4146

<210> 4577

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4577

Pro	Thr	Arg	Pro	Met	Val	Ser	Ser	Ile	Gln	Ala	Ser	Met	Asp	Arg	His
1				5					10					15	

Leu	Arg	Asp	Gln	Ser	Thr	Glu	Gln	Ser	Pro	Ser	Asp	Leu	Pro	Gln	Arg
			20					25					30		

Xaa	Thr	Glu	Val	Val	Ser	Ser	Ser	Ala	Lys	Ser	Gly	Ser	Leu	Gln	Thr
			35					40					45		

Gly	Leu	Pro	Glu	Ser	Phe	Pro	Leu	Thr	Gly	Gly	Thr	Glu	Asn	Leu	Asn
	50					55					60				

Thr	Glu	Thr	Thr	Asp	Gly	Cys	Val	Ala	Asp	Ala	Leu	Gly	Ala	Ala	Phe
65					70					75					80

Ala	Thr	Arg	Ser	Lys	Ala	Gln	Arg	Gly	Asn	Ser	Val	Glu	Glu	Leu	Glu
				85					90					95	

Glu	Met	Asp	Ser	Gln	Asp	Ala	Glu	Met	Thr	Asn	Thr	Thr	Glu	Pro	Met
			100					105					110		

Asp	His	Ser
		115

<210> 4578

<211> 116

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

4147

<400> 4578

Leu Lys Asn His Gln Lys Thr His Thr Ser Glu Lys Ser Tyr Lys Cys
 1 5 10 15

Asn Glu Cys Arg Lys Ala Phe Ser Tyr Cys Ser Gly Leu Ile Gln Cys
 20 25 30

Gln Val Ile His Thr Ile Glu Lys Pro Tyr Glu Tyr Gly Lys Cys Gly
 35 40 45

Lys Ala Phe Arg Gln Arg Thr Asp Leu Lys Lys His Gln Lys Met His
 50 55 60

Thr Glu Glu Lys Pro Tyr Glu Cys Asn Glu Cys Gly Lys Ala Phe Ser
 65 70 75 80

Gln Ser Thr Tyr Leu Thr Lys His Gln Lys Ile His Ser Glu Glu Lys
 85 90 95

Ser Asn Ile His Thr Glu Cys Gly Glu Thr Xaa Xaa Gln Asn Ser Ser
 100 105 110

Phe Leu Gln Gln
 115

<210> 4579

<211> 598

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4579

Ala Thr Ser Arg Gln Pro Ser Tyr Xaa Arg Thr Trp Cys Arg Arg Cys
 1 5 10 15

Cys Leu Pro Leu Ala Leu Asn Pro Val Pro Ala Ala Met Ala Pro Gly
 20 25 30

Gln Leu Ala Leu Phe Ser Val Ser Asp Lys Thr Gly Leu Val Glu Phe

4148

35	40	45
Ala Arg Asn Leu Thr Ala Leu Gly Leu Asn Leu Val Ala Ser Gly Gly		
50	55	60
Thr Ala Lys Ala Leu Arg Asp Ala Gly Leu Ala Val Arg Asp Val Ser		
65	70	75
Glu Leu Thr Gly Phe Pro Glu Met Leu Gly Gly Arg Val Lys Thr Leu		
	85	90
His Pro Ala Val His Ala Gly Ile Leu Ala Arg Asn Ile Pro Glu Asp		
	100	105
Asn Ala Asp Met Ala Arg Leu Asp Phe Asn Leu Ile Arg Val Val Ala		
	115	120
Cys Asn Leu Tyr Pro Phe Val Lys Thr Val Ala Ser Pro Gly Val Xaa		
	130	135
Val Glu Glu Ala Val Glu Gln Ile Asp Ile Gly Gly Val Thr Leu Leu		
145	150	155
Arg Ala Ala Ala Lys Asn His Ala Arg Val Thr Val Val Cys Glu Pro		
	165	170
Glu Asp Tyr Val Val Val Ser Thr Glu Met Gln Ser Ser Glu Ser Lys		
	180	185
Asp Thr Ser Leu Glu Thr Arg Arg Gln Leu Ala Leu Lys Ala Phe Thr		
	195	200
His Thr Ala Gln Tyr Asp Glu Ala Ile Ser Asp Tyr Phe Arg Lys Gln		
	210	215
Tyr Ser Lys Gly Val Ser Gln Met Pro Leu Arg Tyr Gly Met Asn Pro		
225	230	235
His Gln Thr Pro Ala Gln Leu Tyr Thr Leu Gln Pro Lys Leu Pro Ile		
	245	250
Thr Val Leu Asn Gly Ala Pro Gly Phe Ile Asn Leu Cys Asp Ala Leu		
	260	265
Asn Ala Trp Gln Leu Val Lys Glu Leu Lys Glu Ala Leu Gly Ile Pro		
	275	280
Ala Ala Ala Ser Phe Lys His Val Ser Pro Ala Gly Ala Ala Val Gly		
	290	300
Ile Pro Leu Ser Glu Asp Glu Ala Lys Val Cys Met Val Tyr Asp Leu		

4149

305		310		315		320									
Tyr	Lys	Thr	Leu	Thr	Pro	Ile	Ser	Ala	Ala	Tyr	Ala	Arg	Ala	Arg	Gly
				325					330					335	
Ala	Asp	Arg	Met	Ser	Ser	Phe	Gly	Asp	Phe	Val	Ala	Leu	Ser	Asp	Val
			340					345					350		
Cys	Asp	Val	Pro	Thr	Ala	Lys	Ile	Ile	Ser	Arg	Glu	Val	Ser	Asp	Gly
		355					360					365			
Ile	Ile	Ala	Pro	Gly	Tyr	Glu	Glu	Glu	Ala	Leu	Thr	Ile	Leu	Ser	Lys
		370					375				380				
Lys	Lys	Asn	Gly	Asn	Tyr	Cys	Val	Leu	Gln	Met	Asp	Gln	Ser	Tyr	Lys
385					390					395					400
Pro	Asp	Glu	Asn	Glu	Val	Arg	Thr	Leu	Phe	Gly	Leu	His	Leu	Ser	Gln
			405						410					415	
Lys	Arg	Asn	Asn	Gly	Val	Val	Asp	Lys	Ser	Leu	Phe	Ser	Asn	Val	Val
		420						425					430		
Thr	Lys	Asn	Lys	Asp	Leu	Pro	Glu	Ser	Ala	Leu	Arg	Asp	Leu	Ile	Val
		435					440					445			
Ala	Thr	Ile	Ala	Val	Lys	Tyr	Thr	Gln	Ser	Asn	Ser	Val	Cys	Tyr	Ala
		450					455				460				
Lys	Asn	Gly	Gln	Val	Ile	Gly	Ile	Gly	Ala	Gly	Gln	Gln	Ser	Arg	Ile
465					470					475					480
His	Cys	Thr	Arg	Leu	Ala	Gly	Asp	Lys	Ala	Asn	Tyr	Trp	Trp	Leu	Arg
				485					490					495	
His	His	Pro	Gln	Val	Leu	Ser	Met	Lys	Phe	Lys	Thr	Gly	Val	Lys	Arg
			500					505					510		
Ala	Glu	Ile	Ser	Asn	Ala	Ile	Asp	Gln	Tyr	Val	Thr	Gly	Thr	Ile	Gly
		515						520				525			
Glu	Asp	Glu	Asp	Leu	Ile	Lys	Trp	Lys	Ala	Leu	Phe	Glu	Glu	Val	Pro
		530				535					540				
Glu	Leu	Leu	Thr	Glu	Ala	Glu	Lys	Lys	Glu	Trp	Val	Glu	Lys	Leu	Thr
545					550					555					560
Glu	Val	Ser	Ile	Ser	Ser	Asp	Ala	Phe	Phe	Pro	Phe	Arg	Asp	Asn	Val
				565					570					575	
Asp	Arg	Ala	Lys	Arg	Ser	Gly	Val	Ala	Tyr	Ile	Ala	Ala	Pro	Pro	Val

4150

580

585

590

Leu Leu Leu Thr Lys Leu
595

<210> 4580

<211> 48

<212> PRT

<213> Homo sapiens

<400> 4580

Cys Ile Ser Lys Gly Glu Lys Arg Ile Gly Ile Phe Leu Phe Asn Ile
1 5 10 15

Gln Phe Ile Glu Ser Ser Thr Leu Ile Phe Leu Asn Pro Arg Ser Ser
20 25 30

Gly Ser Tyr His Phe Lys Arg Asn Tyr His Gln Phe Cys Val Ser Lys
35 40 45

<210> 4581

<211> 50

<212> PRT

<213> Homo sapiens

<400> 4581

His Val Phe Leu Pro Cys Ser Leu Pro Gly Arg Met Glu Phe Tyr Ile
1 5 10 15

Thr Thr Phe Leu Cys Lys Asn Asn Gly Arg Val Glu Leu Val Val Ile
20 25 30

Leu Ala Phe His Leu Ala Leu Val Ser Ser Ile Gly Leu Glu Ile Ile
35 40 45

Gly Arg
50

<210> 4582

<211> 45

<212> PRT

<213> Homo sapiens

4151

<400> 4582

Gly Leu Met Glu Ile Glu Ile Thr Cys Lys Asp Ile Thr Val Phe Met
 1 5 10 15

Ser Tyr Ile Leu Val Leu Glu Ile Val Glu Cys Met Ile Asp Asn Ile
 20 25 30

Phe Leu Ile Phe Ile Phe Ser Ser Asn Thr Ser Thr Val
 35 40 45

<210> 4583

<211> 125

<212> PRT

<213> Homo sapiens

<400> 4583

Asn Asp Ser Asn Thr Ala Leu Leu His His Glu Thr Asn Pro Gly Gln
 1 5 10 15

Asp Pro Ile Pro Ser His Gln Pro Thr Ser Leu Leu Ala Ala Gly Gln
 20 25 30

Asp Val Ala Ser Ile Thr Phe His Cys Leu Ser Pro Trp Glu Ala Ala
 35 40 45

Gln Leu Arg Leu Gly Thr Arg Pro Pro Leu Leu Gly Pro Thr Gly Lys
 50 55 60

Ser Val Ala Ala Thr Ala Trp Leu Thr Phe Leu Ser Ser Leu Gly Ser
 65 70 75 80

Gly Thr Ala Pro Pro Cys Pro Trp Leu Gly Arg Gly Glu Lys Lys Leu
 85 90 95

Ser Tyr Ala Phe Pro Leu Pro Leu Val Tyr Arg Thr Ser Leu Pro Ser
 100 105 110

Gln Gln Glu Arg Arg Pro Pro Gly Val Ser Pro Gly Gln
 115 120 125

<210> 4584

<211> 342

<212> PRT

<213> Homo sapiens

<220>

4152

<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

4153

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (279)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4584

Ile	Thr	Trp	Pro	Thr	Thr	Gly	Pro	Xaa	Ala	Leu	Asn	Leu	Gln	Ala	His
1				5				10					15		

Trp	Xaa	Gly	Pro	Gly	Ser	Ala	Arg	Xaa	Ala	Xaa	His	His	Leu	Glu	Tyr
		20					25						30		

Arg	Cys	Ala	Pro	Arg	Pro	Pro	Ala	Val	Cys	Trp	His	Xaa	Val	Xaa	Arg
		35					40					45			

Gly	Ala	Lys	Xaa	Xaa	Ala	Xaa	Ala	Gln	Ser	Xaa	Xaa	Xaa	Asp	Thr	Cys
	50					55					60				

Ser	Val	Gln	Asn	Gly	Glu	Asp	Asp	Gly	Arg	Asn	Gln	Ala	Arg	Leu	Gly
	65				70					75					80

His	Arg	Gly	Thr	Leu	Ala	Leu	Gly	Ser	Leu	Leu	Ala	Gln	Gly	Phe	Asn
				85					90					95	

Val	Arg	Leu	Ser	Gly	Gln	Asp	Val	Gly	Arg	Gly	Thr	Phe	Ser	Gln	Arg
		100						105					110		

His	Ala	Met	Val	Val	Cys	Gln	Glu	Thr	Asp	Asp	Thr	Tyr	Ile	Pro	Leu
		115					120					125			

Asn	His	Met	Asp	Pro	Asn	Gln	Lys	Gly	Phe	Leu	Glu	Val	Ser	Asn	Ser
		130				135					140				

Pro	Leu	Ser	Glu	Glu	Ala	Val	Leu	Gly	Phe	Glu	Tyr	Gly	Met	Ser	Ile
	145				150					155					160

Glu	Ser	Pro	Lys	Leu	Leu	Pro	Leu	Trp	Glu	Ala	Gln	Phe	Gly	Asp	Phe
			165					170						175	

Phe	Asn	Gly	Ala	Gln	Ile	Ile	Phe	Asp	Thr	Phe	Ile	Ser	Gly	Gly	Glu
		180					185						190		

Ala	Lys	Trp	Leu	Leu	Gln	Ser	Gly	Ile	Val	Ile	Leu	Leu	Pro	His	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4154

[illegible]

<210> 4585

<211> 59

<212> PRT

<213> Homo sapiens

<400> 4585

Asn Leu Tyr Lys Leu Lys Leu Asn His Glu Leu Gln Lys Lys Ser Ile
1 5 10 15

Leu Pro Lys Leu Asp Val Thr Thr Leu Thr Ser Leu Lys Tyr Glu Val
20 25 30

Asp Cys Leu Lys Asp Ser Ala Tyr Ile Leu Val Cys Thr Phe Arg Asn
35 40 45

Ile Phe Leu Gly Lys Ser Thr Gln His Phe Leu
50 55

4155

<210> 4586

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4586

Val	His	Leu	Lys	Ala	Val	Lys	Met	Val	Leu	Ala	Asp	Leu	Gly	Arg	Lys
1				5					10					15	

Ile	Thr	Ser	Ala	Leu	Arg	Ser	Leu	Ser	Asn	Ala	Thr	Ile	Ile	Asn	Glu
			20					25					30		

Glu	Val	Cys	Lys	Ile	Leu	Tyr	Xaa	Ile	Tyr	Met	Ile	Val	Leu	Leu	Ser
		35					40					45			

Leu	Ala	Leu	Gly	Arg	Trp	Leu	Ile	His	Asn	Pro	Arg	Ile	Tyr	Met	Tyr
	50					55					60				

Phe	Xaa	Val	Asp	Leu	Ile	Leu	Val	Gly	Lys	Ser	Pro	Lys	Gly	Leu	Thr
65					70					75				80	

Val	Gly	Gly	Val	Tyr	Trp	Gly	Ile	Thr	Xaa	Asn	Ser	Asn	Tyr	Phe	Asn
				85					90					95	

Leu Pro

<210> 4587

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4156

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4587

Gly	Lys	Leu	Gly	Met	Leu	Gly	Gln	Glu	Gly	Lys	Val	Leu	Val	Asn	Pro
1				5					10					15	

Leu	Trp	Ser	Asn	Ile	Met	Lys	Val	Asn	Tyr	Asn	Ser	Ile	Tyr	Leu	Ser
			20					25					30		

Leu	Met	Pro	Gln	Ser	Glu	Ile	Xaa	Tyr	Xaa	Leu	Gly	Gly	His	Gly	Cys
		35					40					45			

Ala	Pro	Ile	Gln	Tyr	Thr	Phe	Xaa	Gly	Xaa	Asn	Leu	Phe	Ser	Asp	His
	50					55					60				

Phe	Met	Glu	Ser	Leu	Lys	Tyr	Leu
65					70		

<210> 4588

<211> 385

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (221)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4588

Trp	Ile	Pro	Arg	Ala	Ala	Gly	Phe	Gly	Thr	Arg	Pro	Leu	Pro	Gly	Ala
1				5					10					15	

Ala	Gly	Gly	Ala	Ala	Gly	Cys	Thr	Gln	Arg	Arg	Ser	Arg	Glu	Leu	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4157

	20		25		30										
Ala	Ala	Ala	Met	Ser	His	Gln	Thr	Gly	Ile	Gln	Ala	Ser	Glu	Asp	Val
	35						40				45				
Lys	Glu	Ile	Phe	Ala	Arg	Ala	Arg	Asn	Gly	Lys	Tyr	Arg	Leu	Leu	Lys
	50					55				60					
Ile	Ser	Ile	Glu	Asn	Glu	Gln	Leu	Val	Ile	Gly	Ser	Tyr	Ser	Gln	Pro
65					70				75					80	
Ser	Asp	Ser	Trp	Asp	Lys	Asp	Tyr	Asp	Ser	Phe	Val	Leu	Pro	Leu	Leu
				85					90					95	
Glu	Asp	Lys	Gln	Pro	Cys	Tyr	Ile	Leu	Phe	Arg	Leu	Asp	Ser	Gln	Asn
			100					105					110		
Ala	Gln	Gly	Tyr	Glu	Trp	Ile	Phe	Ile	Ala	Trp	Ser	Pro	Asp	His	Ser
	115						120					125			
His	Val	Arg	Gln	Lys	Met	Leu	Tyr	Ala	Ala	Thr	Arg	Ala	Thr	Leu	Lys
	130					135					140				
Lys	Glu	Phe	Gly	Gly	Gly	His	Ile	Lys	Asp	Glu	Val	Phe	Gly	Thr	Val
145					150					155					160
Lys	Glu	Asp	Val	Ser	Leu	His	Gly	Tyr	Lys	Lys	Tyr	Leu	Leu	Ser	Gln
				165					170					175	
Ser	Ser	Pro	Ala	Pro	Leu	Thr	Ala	Ala	Glu	Glu	Glu	Leu	Arg	Gln	Ile
			180					185					190		
Lys	Ile	Asn	Glu	Val	Gln	Thr	Asp	Val	Gly	Val	Asp	Thr	Lys	His	Gln
	195						200					205			
Thr	Leu	Gln	Gly	Val	Ala	Phe	Pro	Ile	Ser	Arg	Glu	Xaa	Phe	Gln	Ala
	210					215					220				
Leu	Glu	Lys	Leu	Asn	Asn	Arg	Gln	Leu	Asn	Tyr	Val	Gln	Leu	Glu	Ile
225					230					235				240	
Asp	Ile	Lys	Asn	Glu	Ile	Ile	Ile	Leu	Ala	Asn	Thr	Thr	Asn	Thr	Glu
			245						250					255	
Leu	Lys	Asp	Leu	Pro	Lys	Arg	Ile	Pro	Lys	Asp	Ser	Ala	Arg	Tyr	His
			260					265					270		
Phe	Phe	Leu	Tyr	Lys	His	Ser	His	Glu	Gly	Asp	Tyr	Leu	Glu	Ser	Ile
	275						280					285			
Val	Phe	Ile	Tyr	Ser	Met	Pro	Gly	Tyr	Thr	Cys	Ser	Ile	Arg	Glu	Arg

4158

290 295 300
 Met Leu Tyr Ser Ser Cys Lys Ser Arg Leu Leu Glu Ile Val Glu Arg
 305 310 315 320
 Gln Leu Gln Met Asp Val Ile Arg Lys Ile Glu Ile Asp Asn Gly Asp
 325 330 335
 Glu Leu Thr Ala Asp Phe Leu Tyr Glu Glu Val His Pro Lys Gln His
 340 345 350
 Ala His Lys Gln Ser Phe Ala Lys Pro Lys Gly Pro Ala Gly Lys Arg
 355 360 365
 Gly Ile Arg Arg Leu Ile Arg Gly Pro Ala Glu Thr Glu Ala Thr Thr
 370 375 380
 Asp
 385

<210> 4589

<211> 270

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4589

Ser Val Thr Leu Glu Met Glu Ser Lys Leu Ala Ala Glu Lys Lys Gln
 1 5 10 15
 Thr Glu Gln Leu Ser Leu Glu Leu Glu Val Ala Arg Leu Gln Leu Gln
 20 25 30
 Gly Leu Asp Leu Ser Ser Arg Ser Leu Leu Gly Ile Xaa Thr Glu Asp
 35 40 45
 Ala Ile Gln Gly Arg Asn Glu Ser Cys Asp Ile Ser Lys Glu His Thr
 50 55 60
 Ser Glu Thr Thr Glu Arg Thr Pro Lys His Asp Val His Gln Ile Cys
 65 70 75 80
 Asp Lys Asp Ala Gln Gln Asp Leu Asn Leu Asp Ile Glu Lys Ile Thr
 85 90 95

4159

Glu Thr Gly Ala Val Lys Pro Thr Gly Glu Cys Ser Gly Glu Gln Ser
 100 105 110
 Pro Asp Thr Asn Tyr Glu Pro Pro Gly Glu Asp Lys Thr Gln Gly Ser
 115 120 125
 Ser Glu Cys Ile Ser Glu Leu Ser Phe Ser Gly Pro Asn Ala Leu Val
 130 135 140
 Pro Met Asp Phe Leu Gly Asn Gln Glu Asn Ile Gln Asn Leu Gln Leu
 145 150 155 160
 Arg Val Lys Glu Thr Ser Asn Glu Asn Leu Arg Leu Leu His Val Ile
 165 170 175
 Glu Asp Arg Asp Arg Lys Val Glu Ser Leu Leu Asn Glu Met Lys Glu
 180 185 190
 Leu Asp Ser Lys Leu His Leu Gln Glu Val Gln Leu Met Thr Lys Ile
 195 200 205
 Glu Ala Cys Ile Glu Leu Glu Lys Ile Val Gly Glu Leu Lys Lys Glu
 210 215 220
 Asn Ser Asp Leu Ser Glu Lys Leu Glu Tyr Phe Ser Cys Asp His Gln
 225 230 235 240
 Glu Leu Leu Gln Arg Val Glu Thr Ser Glu Gly Leu Asn Ser Asp Leu
 245 250 255
 Glu Met His Ala Asp Lys Ser Ser Arg Glu Asp Ile Gly Arg
 260 265 270

<210> 4590

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4590

Ser Ser Val Pro Pro Lys Lys Lys Leu Ala Glu Lys Asp Xaa Lys Lys
 1 5 10 15

Leu Phe Gly Val Cys Ser Cys Ala Val His Phe Phe Arg Phe Asn Val
 20 25 30

4160

Leu Cys Arg
35

<210> 4591

<211> 173

<212> PRT

<213> Homo sapiens

<400> 4591

Ser Pro Ala Arg Pro Leu Ile Arg Ser Asp Lys Met Lys Glu Thr Ile
1 5 10 15

Met Asn Gln Glu Lys Leu Ala Lys Leu Gln Ala Gln Val Arg Ile Gly
20 25 30

Gly Lys Gly Thr Ala Arg Arg Lys Lys Lys Val Val His Arg Thr Ala
35 40 45

Thr Ala Asp Asp Lys Lys Leu Gln Phe Ser Leu Lys Lys Leu Gly Val
50 55 60

Asn Asn Ile Ser Gly Ile Glu Glu Val Asn Met Phe Thr Asn Gln Gly
65 70 75 80

Thr Val Ile His Phe Asn Asn Pro Lys Val Gln Ala Ser Leu Ala Ala
85 90 95

Asn Thr Phe Thr Ile Thr Gly His Ala Glu Thr Lys Gln Leu Thr Glu
100 105 110

Met Leu Pro Ser Ile Leu Asn Gln Leu Gly Ala Asp Ser Leu Thr Ser
115 120 125

Leu Arg Arg Leu Ala Glu Ala Leu Pro Lys Gln Ser Val Asp Gly Lys
130 135 140

Ala Pro Leu Ala Thr Gly Glu Asp Asp Asp Asp Glu Val Pro Asp Leu
145 150 155 160

Val Glu Asn Phe Asp Glu Ala Ser Lys Asn Glu Ala Asn
165 170

<210> 4592

<211> 66

<212> PRT

<213> Homo sapiens

4161

<400> 4592

Leu Cys Cys Pro Phe His Ile Lys Glu Leu Leu Thr Thr Lys Ala Ala
 1 5 10 15

Pro Ala Phe Pro Ile Cys Leu Ser Ile Trp Leu Ala Gly Lys Glu Arg
 20 25 30

Thr Cys Met Leu Val Lys Glu Glu Val Gly Trp Lys Lys Trp Gly Gly
 35 40 45

Thr Thr Val Lys Ser Arg Val Lys Pro Ser Trp Pro Lys Val Ser Cys
 50 55 60

Arg Leu
 65

<210> 4593

<211> 319

<212> PRT

<213> Homo sapiens

<400> 4593

Glu Thr Met Ala Lys Asn Pro Pro Glu Asn Cys Glu Asp Cys His Ile
 1 5 10 15

Leu Asn Ala Glu Ala Phe Lys Ser Lys Lys Ile Cys Lys Ser Leu Lys
 20 25 30

Ile Cys Gly Leu Val Phe Gly Ile Leu Ala Leu Thr Leu Ile Val Leu
 35 40 45

Phe Trp Gly Ser Lys His Phe Trp Pro Glu Val Pro Lys Lys Ala Tyr
 50 55 60

Asp Met Glu His Thr Phe Tyr Ser Asn Gly Glu Lys Lys Lys Ile Tyr
 65 70 75 80

Met Glu Ile Asp Pro Val Thr Arg Thr Glu Ile Phe Arg Ser Gly Asn
 85 90 95

Gly Thr Asp Glu Thr Leu Glu Val His Asp Phe Lys Asn Gly Tyr Thr
 100 105 110

Gly Ile Tyr Phe Val Gly Leu Gln Lys Cys Phe Ile Lys Thr Gln Ile
 115 120 125

Lys Val Ile Pro Glu Phe Ser Glu Pro Glu Glu Glu Ile Asp Glu Asn
 130 135 140

4162

Glu Glu Ile Thr Thr Thr Phe Phe Glu Gln Ser Val Ile Trp Val Pro
 145 150 155 160
 Ala Glu Lys Pro Ile Glu Asn Arg Asp Phe Leu Lys Asn Ser Lys Ile
 165 170 175
 Leu Glu Ile Cys Asp Asn Val Thr Met Tyr Trp Ile Asn Pro Thr Leu
 180 185 190
 Ile Ser Val Ser Glu Leu Gln Asp Phe Glu Glu Glu Gly Glu Asp Leu
 195 200 205
 His Phe Pro Ala Asn Glu Lys Lys Gly Ile Glu Gln Asn Glu Gln Trp
 210 215 220
 Val Val Pro Gln Val Lys Val Glu Lys Thr Arg His Ala Arg Gln Ala
 225 230 235 240
 Ser Glu Glu Glu Leu Pro Ile Asn Asp Tyr Thr Glu Asn Gly Ile Glu
 245 250 255
 Phe Asp Pro Met Leu Asp Glu Arg Gly Tyr Cys Cys Ile Tyr Cys Arg
 260 265 270
 Arg Gly Asn Arg Tyr Cys Arg Arg Val Cys Glu Pro Leu Leu Gly Tyr
 275 280 285
 Tyr Pro Tyr Pro Tyr Cys Tyr Gln Gly Gly Arg Val Ile Cys Arg Val
 290 295 300
 Ile Met Pro Cys Asn Trp Trp Val Ala Arg Met Leu Gly Arg Val
 305 310 315

<210> 4594

<211> 86

<212> PRT

<213> Homo sapiens

<400> 4594

Tyr Cys Phe Ala Phe Ser Ile Glu Thr Glu Asn Phe Ala Ser Gln Ser
 1 5 10 15
 Leu Leu Phe Pro Trp Tyr Cys Lys Lys Lys Lys Lys Glu Lys Glu Lys
 20 25 30
 Lys Lys Glu Asn Gln Pro Ile Ile Ala Cys Thr Glu Leu Lys Ile Val
 35 40 45

4163

Ile Asn Arg Ala Cys Trp Glu Lys Lys Glu Asn Asn Cys Cys Leu Phe
 50 55 60

Phe Leu Tyr Lys Arg Glu Phe Met Thr Lys Phe Ser Cys Glu Glu Cys
 65 70 75 80

Asp Thr Cys Leu Tyr Phe
 85

<210> 4595

<211> 147

<212> PRT

<213> Homo sapiens

<400> 4595

Phe Pro Leu Val Leu Val Ser His Gln Arg Thr Val Met Tyr Ala Ser
 1 5 10 15

Phe Val Thr Glu Lys Phe Leu Cys Phe Gln Ser Thr Met Arg Cys Met
 20 25 30

Ile Leu Phe Ser Ser His Phe Pro Gln Ala Pro Val Asn Gln Gly Lys
 35 40 45

Cys Ala Thr Asp Arg Leu Gly Glu Gly Leu Val Val Ala Gln Leu Glu
 50 55 60

Ile Val Ser Lys Ser Lys Pro Pro Ala His Pro Glu Glu Ser Leu Leu
 65 70 75 80

Trp Asn Val Lys Cys Asn His Phe Phe Arg Tyr Lys Thr Phe Pro Asn
 85 90 95

Asn Val Ile Gly Phe Leu Tyr Gly Lys Ile Glu Arg Ser Cys His Pro
 100 105 110

Pro Ala Tyr Ala Phe Ile Ser Phe Val Asp Leu Ser Asp His Leu Leu
 115 120 125

Phe Ala Gln Ser Leu Leu Asn Ser Lys Thr Val Pro Met Asn Gly Thr
 130 135 140

Pro Val Met
 145

<210> 4596

<211> 59

4164

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4596

Thr Pro Xaa Gln Phe Gly Gly Tyr Ala Lys Glu Ala Asp Tyr Val Ala
 1 5 10 15

Gln Ala Thr Arg Leu Arg Ala Ala Leu Glu Gly Thr Ala Thr Tyr Arg
 20 25 30

Gly Asp Ile Tyr Phe Cys Thr Gly Tyr Asp Pro Pro Met Lys Pro Tyr
 35 40 45

Gly Arg Arg Asn Glu Ile Trp Leu Leu Lys Thr
 50 55

<210> 4597

<211> 358

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (352)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4597

Phe Ala Val Ile Arg Phe Glu Ser Ile Ile His Glu Phe Asp Pro Trp
 1 5 10 15

Phe Asn Tyr Arg Ser Thr His His Leu Ala Ser His Gly Phe Tyr Glu
 20 25 30

Phe Leu Asn Trp Phe Asp Glu Arg Ala Trp Tyr Pro Leu Gly Arg Ile
 35 40 45

Val Gly Gly Thr Val Tyr Pro Gly Leu Met Ile Thr Ala Gly Leu Ile
 50 55 60

His Trp Ile Leu Asn Thr Leu Asn Ile Thr Val His Ile Arg Asp Val
 65 70 75 80

Cys Val Phe Leu Ala Pro Thr Phe Ser Gly Leu Thr Ser Ile Ser Thr
 85 90 95

4165

Phe Leu Leu Thr Arg Glu Leu Trp Asn Gln Gly Ala Gly Leu Leu Ala
 100 105 110
 Ala Cys Phe Ile Ala Ile Val Pro Gly Tyr Ile Ser Arg Ser Val Ala
 115 120 125
 Gly Ser Phe Asp Asn Glu Gly Ile Ala Ile Phe Ala Leu Gln Phe Thr
 130 135 140
 Tyr Tyr Leu Trp Val Lys Ser Val Lys Thr Gly Ser Val Phe Trp Thr
 145 150 155 160
 Met Cys Cys Cys Leu Ser Tyr Phe Tyr Met Val Ser Ala Trp Gly Gly
 165 170 175
 Tyr Val Phe Ile Ile Asn Leu Ile Pro Leu His Val Phe Val Leu Leu
 180 185 190
 Leu Met Gln Arg Tyr Ser Lys Arg Val Tyr Ile Ala Tyr Ser Thr Phe
 195 200 205
 Tyr Ile Val Gly Leu Ile Leu Ser Met Gln Ile Pro Phe Val Gly Phe
 210 215 220
 Gln Pro Ile Arg Thr Ser Glu His Met Ala Ala Ala Gly Val Phe Ala
 225 230 235 240
 Leu Leu Gln Ala Tyr Ala Phe Leu Gln Tyr Leu Arg Asp Arg Leu Thr
 245 250 255
 Lys Gln Glu Phe Gln Thr Leu Phe Phe Leu Gly Val Ser Leu Ala Ala
 260 265 270
 Gly Ala Val Phe Leu Ser Val Ile Tyr Leu Thr Tyr Thr Gly Tyr Ile
 275 280 285
 Ala Pro Trp Ser Gly Arg Phe Tyr Ser Leu Trp Asp Thr Gly Tyr Ala
 290 295 300
 Lys Ile His Ile Pro Ile Ile Ala Ser Val Ser Glu His Gln Pro Thr
 305 310 315 320
 Thr Trp Val Ser Phe Phe Phe Asp Leu His Ile Leu Val Cys Thr Phe
 325 330 335
 Pro Ala Gly Leu Trp Phe Cys Ile Lys Asn Ile Asn Asp Glu Arg Xaa
 340 345 350
 Phe Gly Lys Arg Gly Phe
 355

4166

<210> 4598

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4598

Ile	Ser	Glu	Xaa	Ser	Phe	Phe	Gln	Asn	Met	Leu	Asn	Leu	Tyr	Asn	Phe
1				5					10					15	

Ser	Ala	Lys	Val	Met	Ala	Asp	Gln	Leu	Arg	Lys	Pro	Pro	Ser	Arg	Asp
			20					25					30		

Gln	Trp	Ser	Met	Thr	Pro	Gln	Thr	Val	Asn	Ala	Tyr	Tyr	Leu	Pro	Thr
		35					40					45			

Lys	Asn	Glu	Ile	Val	Phe	Pro	Ala	Gly	Ile	Leu	Gln	Ala	Pro	Phe	Tyr
	50					55					60				

Ala	Arg	Asn	His	Pro	Lys	Ala	Leu	Asn	Phe	Gly	Gly	Ile	Gly	Val	Val
65					70					75				80	

Met	Gly	His	Glu	Leu	Thr	Xaa	Ala	Phe	Asp	Asp	Gln	Gly	Arg	Glu	Tyr
				85					90					95	

Asp	Lys	Glu	Gly	Asn	Leu	Arg	Pro	Trp	Trp	Gln	Asn	Glu	Ser	Leu	Ala
		100						105					110		

Ala	Phe	Arg	Asn	His	Thr	Ala	Cys	Met	Glu	Glu	Gln	Tyr	Asn	Gln	Tyr
	115						120					125			

Gln	Val	Asn	Gly	Glu	Arg	Leu	Asn	Gly	Arg	Gln	Thr	Leu	Gly	Glu	Asn
	130					135					140				

Ile	Ala	Asp	Asn	Gly	Gly	Leu	Lys	Leu	Pro	Thr	Met	Leu	Thr	Lys	His
145					150					155				160	

Gly

4167

<210> 4599

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4599

Ala Gln Val Val Val Leu Val Met Ser Leu Thr Thr Leu Trp Thr Leu
1 5 10 15

Asp Lys Leu Leu Leu Cys Val Cys Xaa Leu Ile Cys Lys Met Lys Ile
20 25 30

Ile Ser Val Ser Tyr Arg Tyr Ser Leu Asn Arg Asp Asn Tyr Thr Tyr
35 40 45

Phe Lys Val Val Lys Tyr Thr Ile Thr Thr Arg
50 55

<210> 4600

<211> 44

<212> PRT

<213> Homo sapiens

<400> 4600

Asp Gln Pro Gly Gln His Ser Lys Thr Pro Ser Leu Gln Lys Asn Leu
1 5 10 15

Lys Ile Ser Gln Val Trp Trp His Ala Pro Val Val Pro Ala Thr Arg
20 25 30

Asp Ala Glu Val Arg Gly Ser Leu Glu Pro Gly Arg
35 40

<210> 4601

<211> 397

<212> PRT

<213> Homo sapiens

<220>

4168

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (392)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (395)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (396)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4601

Ser	His	Gly	Pro	Ala	Ala	Gly	Pro	Arg	Ser	Ala	Leu	Gln	His	Asn	Lys
1				5				10						15	

Met	Ala	Asn	Gln	Val	Asn	Gly	Asn	Ala	Val	Gln	Leu	Lys	Glu	Glu	Glu
			20					25					30		

Glu	Pro	Met	Asp	Thr	Ser	Ser	Val	Thr	His	Thr	Glu	His	Tyr	Lys	Thr
		35					40					45			

Leu	Ile	Glu	Ala	Gly	Leu	Pro	Gln	Lys	Val	Ala	Glu	Arg	Leu	Asp	Glu
	50					55					60				

Ile	Phe	Gln	Thr	Gly	Leu	Val	Ala	Tyr	Val	Asp	Leu	Asp	Glu	Arg	Ala
65					70					75					80

Ile	Asp	Ala	Leu	Arg	Glu	Phe	Asn	Glu	Glu	Gly	Ala	Leu	Ser	Val	Leu
			85					90						95	

Gln	Gln	Phe	Lys	Glu	Ser	Asp	Leu	Ser	His	Val	Gln	Asn	Lys	Ser	Ala
			100					105					110		

Phe	Leu	Cys	Gly	Val	Met	Lys	Thr	Tyr	Arg	Gln	Arg	Glu	Lys	Gln	Gly
	115						120					125			

Ser	Lys	Val	Gln	Glu	Ser	Thr	Lys	Gly	Pro	Asp	Glu	Ala	Lys	Ile	Lys
	130					135					140				

Ala	Leu	Leu	Glu	Arg	Thr	Gly	Tyr	Thr	Leu	Asp	Val	Thr	Thr	Gly	Gln
145					150					155					160

Arg	Lys	Tyr	Gly	Gly	Pro	Pro	Pro	Asp	Ser	Val	Tyr	Ser	Gly	Val	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4169

				165					170							175	
Pro	Gly	Ile	Gly	Thr	Glu	Val	Phe	Val	Gly	Lys	Ile	Pro	Arg	Asp	Leu		
			180					185					190				
Tyr	Glu	Asp	Glu	Leu	Val	Pro	Leu	Phe	Glu	Lys	Ala	Gly	Pro	Ile	Trp		
		195					200					205					
Asp	Leu	Arg	Leu	Met	Met	Asp	Pro	Leu	Ser	Gly	Gln	Asn	Arg	Gly	Tyr		
	210					215					220						
Ala	Phe	Ile	Thr	Phe	Cys	Gly	Lys	Glu	Ala	Ala	Gln	Glu	Ala	Val	Lys		
225					230					235					240		
Leu	Cys	Asp	Ser	Tyr	Glu	Ile	Arg	Pro	Gly	Lys	His	Leu	Gly	Val	Cys		
				245					250					255			
Ile	Ser	Val	Ala	Asn	Asn	Arg	Leu	Phe	Val	Gly	Ser	Ile	Pro	Xaa	Asn		
			260					265					270				
Lys	Thr	Lys	Glu	Asn	Ile	Leu	Glu	Glu	Phe	Ser	Lys	Val	Thr	Glu	Gly		
		275					280					285					
Leu	Val	Asp	Val	Ile	Leu	Tyr	His	Gln	Pro	Asp	Asp	Lys	Lys	Lys	Asn		
	290					295					300						
Arg	Gly	Phe	Cys	Phe	Leu	Glu	Tyr	Glu	Asp	His	Lys	Ser	Ala	Ala	Gln		
305					310					315					320		
Ala	Arg	Arg	Arg	Leu	Met	Ser	Gly	Lys	Val	Lys	Val	Trp	Gly	Asn	Val		
				325					330					335			
Val	Thr	Val	Glu	Trp	Ala	Asp	Pro	Val	Glu	Glu	Pro	Asp	Pro	Glu	Val		
			340					345					350				
Met	Ala	Lys	Val	Lys	Val	Leu	Phe	Val	Arg	Asn	Leu	Ala	Thr	Thr	Val		
		355					360					365					
Thr	Glu	Glu	Ile	Leu	Glu	Lys	Ser	Phe	Ser	Glu	Phe	Gly	Lys	Leu	Glu		
						375					380						
Arg	Val	Lys	Lys	Leu	Lys	Val	Xaa	Ala	Ala	Xaa	Xaa	Asn					
385						390					395						

<210> 4602

<211> 355

<212> PRT

<213> Homo sapiens

4170

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (253)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4602

Lys	Xaa	His	Leu	Leu	Tyr	Arg	Pro	Leu	Glu	Gln	Gln	His	Gly	Val	Ile
1				5					10					15	

Pro	Asp	Arg	Asp	Ala	Glu	Phe	Cys	Leu	Phe	Asp	Arg	Val	Val	Asn	Val
			20					25					30		

Arg	Glu	Asn	Phe	Ser	Val	Pro	Val	Gly	Leu	Arg	Gly	Thr	Ile	Ile	Gly
		35					40					45			

Ile	Lys	Gly	Ala	Asn	Arg	Glu	Ala	Asp	Val	Leu	Phe	Glu	Val	Leu	Phe
	50					55					60				

Asp	Xaa	Glu	Phe	Pro	Gly	Gly	Leu	Thr	Ile	Arg	Cys	Ser	Pro	Gly	Arg
65					70					75					80

Gly	Tyr	Arg	Leu	Pro	Thr	Ser	Ala	Leu	Val	Asn	Leu	Ser	His	Gly	Ser
				85					90					95	

Arg	Ser	Glu	Thr	Gly	Asn	Gln	Lys	Leu	Thr	Ala	Ile	Val	Lys	Pro	Gln
		100						105					110		

Pro	Ala	Val	His	Gln	His	Ser	Ser	Ser	Ser	Ser	Val	Ser	Ser	Gly	His
		115					120						125		

Leu	Gly	Xaa	Leu	Asn	His	Ser	Pro	Gln	Ser	Leu	Phe	Val	Pro	Thr	Gln
	130					135					140				

Val	Pro	Thr	Lys	Asp	Asp	Asp	Glu	Phe	Cys	Asn	Ile	Trp	Gln	Ser	Leu
145					150					155					160

4171

Gln Gly Ser Gly Lys Met Gln Tyr Phe Glu Pro Thr Ile Gln Glu Lys
 165 170 175
 Gly Ala Val Leu Pro Gln Glu Ile Ser Gln Val Asn Gln His His Lys
 180 185 190
 Ser Gly Phe Asn Asp Asn Ser Val Lys Tyr Gln Gln Arg Lys His Asp
 195 200 205
 Pro His Arg Lys Phe Lys Glu Glu Cys Lys Ser Pro Lys Ala Glu Cys
 210 215 220
 Trp Ser Gln Lys Met Ser Asn Lys Gln Pro Asn Ser Gly Ile Glu Asn
 225 230 235 240
 Phe Leu Ala Ser Leu Asn Ile Ser Lys Glu Asn Glu Xaa Gln Ser Ser
 245 250 255
 His His Gly Glu Pro Pro Ser Glu Glu His Leu Ser Pro Gln Ser Phe
 260 265 270
 Ala Met Lys Gly Thr Arg Met Leu Lys Glu Ile Leu Lys Ile Asp Gly
 275 280 285
 Ser Asn Thr Val Asp His Lys Asn Glu Ile Lys Gln Ile Ala Asn Glu
 290 295 300
 Ile Pro Val Ser Ser Asn Arg Arg Asp Glu Tyr Gly Leu Pro Ser Gln
 305 310 315 320
 Pro Lys Gln Asn Lys Lys Leu Ala Ser Tyr Met Asn Lys Pro His Ser
 325 330 335
 Ala Asn Glu Tyr His Asn Val Gln Ser Met Asp Asn Met Cys Trp Pro
 340 345 350
 Ala Pro Ser
 355

<210> 4603

<211> 385

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

4172

<400> 4603

His	Arg	Arg	Tyr	Ser	Val	Ala	Ser	Gln	Val	Pro	Ser	Gly	Cys	Thr	Leu
1				5					10					15	
Glu	Asp	His	Thr	Arg	Phe	Leu	Phe	Gly	Cys	Gln	Arg	Pro	Pro	His	Pro
			20					25					30		
Pro	Leu	Ser	Trp	Glu	Lys	Asp	Gly	Gly	Xaa	Val	Arg	Gln	Asp	Leu	Ala
		35					40					45			
Gln	Leu	Met	Asn	Ser	Ser	Gly	Ser	His	Lys	Asp	Leu	Ala	Gly	Lys	Tyr
	50					55					60				
Arg	Gln	Ile	Leu	Glu	Lys	Ala	Ile	Gln	Leu	Ser	Gly	Ala	Glu	Gln	Leu
65					70					75					80
Glu	Ala	Leu	Lys	Ala	Phe	Val	Glu	Ala	Met	Val	Asn	Glu	Asn	Val	Ser
				85					90					95	
Leu	Val	Ile	Ser	Arg	Gln	Leu	Leu	Thr	Asp	Phe	Cys	Thr	His	Leu	Pro
			100					105					110		
Asn	Leu	Pro	Asp	Ser	Thr	Ala	Lys	Glu	Ile	Tyr	His	Phe	Thr	Leu	Glu
	115						120					125			
Lys	Ile	Gln	Pro	Arg	Val	Ile	Ser	Phe	Glu	Glu	Gln	Val	Ala	Ser	Ile
	130					135					140				
Arg	Gln	His	Leu	Ala	Ser	Ile	Tyr	Glu	Lys	Glu	Glu	Asp	Trp	Arg	Asn
145					150					155					160
Ala	Ala	Gln	Val	Leu	Val	Gly	Ile	Pro	Leu	Glu	Thr	Gly	Gln	Lys	Gln
				165					170					175	
Tyr	Asn	Val	Asp	Tyr	Lys	Leu	Glu	Thr	Tyr	Leu	Lys	Ile	Ala	Arg	Leu
			180					185					190		
Tyr	Leu	Glu	Asp	Asp	Asp	Pro	Val	Gln	Ala	Glu	Ala	Tyr	Ile	Asn	Arg
	195						200					205			
Ala	Ser	Leu	Leu	Gln	Asn	Glu	Ser	Thr	Asn	Glu	Gln	Leu	Gln	Ile	His
	210					215					220				
Tyr	Lys	Val	Cys	Tyr	Ala	Arg	Val	Leu	Asp	Tyr	Arg	Arg	Lys	Phe	Ile
225					230					235					240
Glu	Ala	Ala	Gln	Arg	Tyr	Asn	Glu	Leu	Ser	Tyr	Lys	Thr	Ile	Val	His
				245					250					255	
Glu	Ser	Glu	Arg	Leu	Glu	Ala	Leu	Lys	His	Ala	Leu	His	Cys	Thr	Ile
			260					265						270	

4173

Leu Ala Ser Ala Gly Gln Gln Arg Ser Arg Met Leu Ala Thr Leu Phe
 275 280 285
 Lys Asp Glu Arg Cys Gln Gln Leu Ala Ala Tyr Gly Ile Leu Glu Lys
 290 295 300
 Met Tyr Leu Asp Arg Ile Ile Arg Gly Asn Gln Leu Gln Glu Phe Ala
 305 310 315 320
 Ala Met Leu Met Pro His Gln Lys Ala Thr Thr Ala Asp Gly Ser Ser
 325 330 335
 Ile Leu Asp Arg Ala Val Ile Glu His Asn Leu Leu Ser Ala Ser Lys
 340 345 350
 Leu Tyr Asn Asn Ile Thr Phe Glu Glu Leu Gly Ala Leu Leu Glu Ile
 355 360 365
 Pro Ala Ala Lys Ala Glu Lys Ile Ala Ser Gln Met Ile Thr Glu Asp
 370 375 380
 Val
 385

<210> 4604

<211> 120

<212> PRT

<213> Homo sapiens

<400> 4604

Ala His Gly Gln Ile Glu Gly Lys Ala Leu Thr His Asp His Thr Ala
 1 5 10 15
 Glu Lys Trp Gln Arg Gln Asp Leu Asn Leu Glu Pro Leu Ala Pro His
 20 25 30
 Thr Ser Asn Leu Asn His Ser Pro Tyr Asn Thr Thr Tyr Val Val Lys
 35 40 45
 Met Cys Gly Gly His Ala Ile Asn Val Gly Pro Phe Thr Val Ala Gly
 50 55 60
 Arg Gly Arg Asn Leu Gln Phe Leu Arg Val Leu Leu Leu Arg Cys Pro
 65 70 75 80
 Pro Val Leu Gly His Ser Cys Ser Leu Pro Cys Pro Ala Trp Ser His
 85 90 95

4174

Pro Pro Ser Ala Asn Arg Ser Leu Gly Arg Val Leu Trp Ala Leu Ile
 100 105 110

Arg Pro Trp Gln Gly Arg Ser Ser
 115 120

<210> 4605

<211> 390

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4605

Thr Ser Val Ala Ala Ala Ala Arg Gly Arg Ala Gly Cys Pro Leu
 1 5 10 15

Thr Ala Ala Ser Ala Ala Arg Phe Lys Met Ala Ala Cys Ser His Ser
 20 25 30

Phe Ser Ala Glu Arg Leu Leu Thr Phe Ile Val Phe Ser Ala Arg Phe
 35 40 45

Asp Arg Leu Xaa Pro Ala Ala Leu Ser Gly Ile Phe Tyr Gln Ala Glu
 50 55 60

Met His Arg Thr Thr Arg Ile Lys Ile Thr Glu Leu Asn Pro His Leu
 65 70 75 80

Met Cys Val Leu Cys Gly Gly Tyr Phe Ile Asp Ala Thr Thr Ile Ile
 85 90 95

Glu Cys Leu His Ser Phe Cys Lys Thr Cys Ile Val Arg Tyr Leu Glu
 100 105 110

Thr Ser Lys Tyr Cys Pro Ile Cys Asp Val Gln Val His Lys Thr Arg
 115 120 125

Pro Leu Leu Asn Ile Arg Ser Asp Lys Thr Leu Gln Asp Ile Val Tyr
 130 135 140

Lys Leu Val Pro Gly Leu Phe Lys Asn Glu Met Lys Arg Arg Arg Asp
 145 150 155 160

Phe Tyr Ala Ala His Pro Ser Ala Asp Ala Ala Asn Gly Ser Asn Glu
 165 170 175

4175

Asp Arg Gly Glu Val Ala Asp Glu Asp Lys Arg Ile Ile Thr Asp Asp
 180 185 190
 Glu Ile Ile Ser Leu Ser Ile Glu Phe Phe Asp Gln Asn Arg Leu Asp
 195 200 205
 Arg Lys Val Asn Lys Asp Lys Glu Lys Ser Lys Glu Glu Val Asn Asp
 210 215 220
 Lys Arg Tyr Leu Arg Cys Pro Ala Ala Met Thr Val Met His Leu Arg
 225 230 235 240
 Lys Phe Leu Arg Ser Lys Met Asp Ile Pro Asn Thr Phe Gln Ile Asp
 245 250 255
 Val Met Tyr Glu Glu Glu Pro Leu Lys Asp Tyr Tyr Thr Leu Met Asp
 260 265 270
 Ile Ala Tyr Ile Tyr Thr Trp Arg Arg Asn Gly Pro Leu Pro Leu Lys
 275 280 285
 Tyr Arg Val Arg Pro Thr Cys Lys Arg Met Lys Ile Ser His Gln Arg
 290 295 300
 Asp Gly Leu Thr Asn Ala Gly Glu Leu Glu Ser Asp Ser Gly Ser Asp
 305 310 315 320
 Lys Ala Asn Ser Pro Ala Gly Gly Ile Pro Ser Thr Ser Ser Cys Leu
 325 330 335
 Pro Ser Pro Ser Thr Pro Val Gln Ser Pro His Pro Gln Phe Pro His
 340 345 350
 Ile Ser Ser Thr Met Asn Gly Thr Ser Asn Ser Pro Ser Gly Asn His
 355 360 365
 Gln Ser Ser Phe Ala Asn Arg Pro Arg Lys Ser Ser Val Asn Gly Ser
 370 375 380
 Ser Ala Thr Ser Ser Gly
 385 390

<210> 4606

<211> 197

<212> PRT

<213> Homo sapiens

<400> 4606

4176

Leu Thr Gly Leu Ser Ile Ser Ser Thr Pro Pro Ala Val Ser Ser Val
 1 5 10 15
 Leu Ser Thr Gly Val Pro Thr Val Pro Leu Leu Pro Pro Gln Val Asn
 20 25 30
 Gln Ser Leu Thr Ser Val Pro Pro Met Asn Pro Ala Thr Thr Leu Pro
 35 40 45
 Gly Leu Met Pro Leu Pro Ala Gly Leu Pro Asn Leu Pro Asn Leu Asn
 50 55 60
 Leu Asn Leu Pro Ala Pro His Ile Met Pro Gly Val Gly Leu Pro Glu
 65 70 75 80
 Leu Val Asn Pro Gly Leu Pro Pro Leu Pro Ser Met Pro Pro Arg Asn
 85 90 95
 Leu Pro Gly Ile Ala Pro Leu Pro Leu Pro Ser Glu Phe Leu Pro Ser
 100 105 110
 Phe Pro Leu Val Pro Glu Ser Ser Ser Ala Ala Ser Ser Gly Glu Leu
 115 120 125
 Leu Ser Ser Leu Pro Pro Thr Ser Asn Ala Pro Ser Asp Pro Ala Thr
 130 135 140
 Thr Thr Ala Lys Ala Asp Ala Ala Ser Ser Leu Thr Val Asp Val Thr
 145 150 155 160
 Pro Pro Thr Ala Lys Ala Pro Thr Thr Val Glu Asp Arg Val Gly Asp
 165 170 175
 Ser Thr Pro Val Ser Glu Lys Pro Val Ser Ala Ala Val Asp Ala Asn
 180 185 190
 Ala Ser Glu Ser Pro
 195

<210> 4607

<211> 96

<212> PRT

<213> Homo sapiens

<400> 4607

Leu Met Phe Tyr Val Leu Phe Trp Thr Leu Ser Ser Cys Lys Asn Phe
 1 5 10 15
 Tyr Lys Asn Cys Phe Leu His Pro Cys Gly Ala Tyr Ser Ser Glu Pro

4177

	20		25		30
Ser	Pro	Gln	Ser	Gln	Cys
	35			40	
Leu	Cys	Phe	Leu	Phe	Tyr
				45	
Phe	Cys	Ser	Ile		
Arg	Phe	Leu	Leu	Leu	Leu
	50		55		60
Cys	Leu	Lys	Ser	Ser	Leu
					Gly
Ser	Tyr	Gln			
Gly	Phe	Ser	Phe	Cys	Val
	65		70		75
Ala	Phe	Ala	Ala	Trp	Ile
					Lys
His	Trp	Leu			
		80			
Thr	Val	Leu	Met	Cys	Glu
			85		Glu
Lys	Lys	Phe	Ser	Lys	Ala
			90		Gly
Glu	Leu				95

<210> 4608

<211> 298

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4608

Pro	Cys	Ala	Trp	Arg	Ala	Ala	Arg	Gly	Gly	Pro	Cys	Ala	Ala	Pro	Leu
1				5				10						15	

Gly	Leu	Arg	Glu	Arg	Gly	Arg	Val	Ser	Xaa	Arg	Leu	Leu	Gly	Pro	Ala
	20					25							30		

Ala	Ala	Arg	Ala	Leu	Leu	Leu	Gly	Leu	Pro	Gly	Arg	Thr	Leu	Glu	Ala
	35						40					45			

Ala	Ser	Gly	Arg	Ser	Trp	Leu	Ala	Ala	Ala	Arg	Asp	Arg	Pro	Ala	Glu
	50					55						60			

4178

Pro Leu Phe Gly Arg Gly Glu Gly Gly Ser Gln Ala Ser Gly Xaa Ala
 65 70 75 80
 Gly Ala Ala Ala Glu Ala Pro Gly Xaa Gln Trp Gly Pro Ala Ser Thr
 85 90 95
 Pro Ser Leu Tyr Glu Asn Pro Trp Thr Ile Pro Asn Met Leu Ser Met
 100 105 110
 Thr Arg Ile Gly Leu Ala Pro Val Leu Gly Tyr Leu Ile Ile Glu Glu
 115 120 125
 Asp Phe Asn Ile Ala Leu Gly Val Phe Ala Leu Ala Gly Leu Thr Asp
 130 135 140
 Leu Leu Asp Gly Phe Ile Ala Arg Asn Trp Ala Asn Gln Arg Ser Ala
 145 150 155 160
 Leu Gly Ser Ala Leu Asp Pro Leu Ala Asp Lys Ile Leu Ile Ser Ile
 165 170 175
 Leu Tyr Val Ser Leu Thr Tyr Ala Asp Leu Ile Pro Val Pro Leu Thr
 180 185 190
 Tyr Met Ile Ile Ser Arg Asp Val Met Leu Ile Ala Ala Val Phe Tyr
 195 200 205
 Val Arg Tyr Arg Thr Leu Pro Thr Pro Arg Thr Leu Ala Lys Tyr Phe
 210 215 220
 Asn Pro Cys Tyr Ala Thr Ala Arg Leu Lys Pro Thr Phe Ile Ser Lys
 225 230 235 240
 Val Asn Thr Ala Val Gln Leu Ile Leu Val Ala Ala Ser Leu Ala Ala
 245 250 255
 Pro Val Phe Asn Tyr Ala Asp Ser Ile Tyr Leu Gln Ile Leu Trp Cys
 260 265 270
 Phe Thr Ala Phe Thr Thr Ala Ala Ser Ala Tyr Ser Tyr Tyr His Tyr
 275 280 285
 Gly Arg Lys Thr Val Gln Val Ile Lys Asp
 290 295

<210> 4609

<211> 279

<212> PRT

4179

<213> Homo sapiens

<400> 4609

Glu Gly Pro Ala Glu Gly Asn Met Ala Ala Lys Val Phe Glu Ser Ile
 1 5 10 15

Gly Lys Phe Gly Leu Ala Leu Ala Val Ala Gly Gly Val Val Asn Ser
 20 25 30

Ala Leu Tyr Asn Val Asp Ala Gly His Arg Ala Val Ile Phe Asp Arg
 35 40 45

Phe Arg Gly Val Gln Asp Ile Val Val Gly Glu Gly Thr His Phe Leu
 50 55 60

Ile Pro Trp Val Gln Lys Pro Ile Ile Phe Asp Cys Arg Ser Arg Pro
 65 70 75 80

Arg Asn Val Pro Val Ile Thr Gly Ser Lys Asp Leu Gln Asn Val Asn
 85 90 95

Ile Thr Leu Arg Ile Leu Phe Arg Pro Val Ala Ser Gln Leu Pro Arg
 100 105 110

Ile Phe Thr Ser Ile Gly Glu Asp Tyr Asp Glu Arg Val Leu Pro Ser
 115 120 125

Ile Thr Thr Glu Ile Leu Lys Ser Val Val Ala Arg Phe Asp Ala Gly
 130 135 140

Glu Leu Ile Thr Gln Arg Glu Leu Val Ser Arg Gln Val Ser Asp Asp
 145 150 155 160

Leu Thr Glu Arg Ala Ala Thr Phe Gly Leu Ile Leu Asp Asp Val Ser
 165 170 175

Leu Thr His Leu Thr Phe Gly Lys Glu Phe Thr Glu Ala Val Glu Ala
 180 185 190

Lys Gln Val Ala Gln Gln Glu Ala Glu Arg Ala Arg Phe Val Val Glu
 195 200 205

Lys Ala Glu Gln Gln Lys Lys Ala Ala Ile Ile Ser Ala Glu Gly Asp
 210 215 220

Ser Lys Ala Ala Glu Leu Ile Ala Asn Ser Leu Ala Thr Ala Gly Asp
 225 230 235 240

Gly Leu Ile Glu Leu Arg Lys Leu Glu Ala Ala Glu Asp Ile Ala Tyr
 245 250 255

4180

Gln Leu Ser Arg Ser Arg Asn Ile Thr Tyr Leu Pro Ala Gly Gln Ser
 260 265 270

Val Leu Leu Gln Leu Pro Gln
 275

<210> 4610

<211> 406

<212> PRT

<213> Homo sapiens

<400> 4610

Val Thr Ala Cys Ala Ala Pro Ala Ala Trp Leu Pro Ile Leu Val Ala
 1 5 10 15

Asp Ile Trp Ser Ser Tyr Asn Met Ala Asp Ile Asp Asn Lys Glu Gln
 20 25 30

Ser Glu Leu Asp Gln Asp Leu Asp Asp Val Glu Glu Val Glu Glu Glu
 35 40 45

Glu Thr Gly Glu Glu Thr Lys Leu Lys Ala Arg Gln Leu Thr Val Gln
 50 55 60

Met Met Gln Asn Pro Gln Ile Leu Ala Ala Leu Gln Glu Arg Leu Asp
 65 70 75 80

Gly Leu Val Glu Thr Pro Thr Gly Tyr Ile Glu Ser Leu Pro Arg Val
 85 90 95

Val Lys Arg Arg Val Asn Ala Leu Lys Asn Leu Gln Val Lys Cys Ala
 100 105 110

Gln Ile Glu Ala Lys Phe Tyr Glu Glu Val His Asp Leu Glu Arg Lys
 115 120 125

Tyr Ala Val Leu Tyr Gln Pro Leu Phe Asp Lys Arg Phe Glu Ile Ile
 130 135 140

Asn Ala Ile Tyr Glu Pro Thr Glu Glu Glu Cys Glu Trp Lys Pro Asp
 145 150 155 160

Glu Glu Asp Glu Ile Ser Glu Glu Leu Lys Glu Lys Ala Lys Ile Glu
 165 170 175

Asp Glu Lys Lys Asp Glu Glu Lys Glu Asp Pro Lys Gly Ile Pro Glu
 180 185 190

Phe Trp Leu Thr Val Phe Lys Asn Val Asp Leu Leu Ser Asp Met Val

4181

195	200	205
Gln Glu His Asp Glu Pro Ile Leu Lys His Leu Lys Asp Ile Lys Val		
210	215	220
Lys Phe Ser Asp Ala Gly Gln Pro Met Ser Phe Val Leu Glu Phe His		
225	230	235
Phe Glu Pro Asn Glu Tyr Phe Thr Asn Glu Val Leu Thr Lys Thr Tyr		
	245	250
Arg Met Arg Ser Glu Pro Asp Asp Ser Asp Pro Phe Ser Phe Asp Gly		
	260	265
Pro Glu Ile Met Gly Cys Thr Gly Cys Gln Ile Asp Trp Lys Lys Gly		
	275	280
Lys Asn Val Thr Leu Lys Thr Ile Lys Lys Lys Gln Lys His Lys Gly		
	290	300
Arg Gly Thr Val Arg Thr Val Thr Lys Thr Val Ser Asn Asp Ser Phe		
305	310	315
Phe Asn Phe Phe Ala Pro Pro Glu Val Pro Glu Ser Gly Asp Leu Asp		
	325	330
Asp Asp Ala Glu Ala Ile Leu Ala Ala Asp Phe Glu Ile Gly His Phe		
	340	345
Leu Arg Glu Arg Ile Ile Pro Arg Ser Val Leu Tyr Phe Thr Gly Glu		
	355	360
Ala Ile Glu Asp Asp Asp Asp Asp Tyr Asp Glu Glu Gly Glu Glu Ala		
	370	375
Asp Glu Gly Tyr Gln Leu Phe Glu Glu Val Lys Ser Cys Ser Lys Leu		
385	390	395
Phe Gln Arg Trp Leu Gln		
	405	

<210> 4611

<211> 126

<212> PRT

<213> Homo sapiens

<400> 4611

Gly Val Val Lys Ser Leu Leu Phe Thr Arg Cys Asn Val Leu Val Pro
1 5 10 15

4182

Tyr Lys Gln Gly Trp Gly Gly Glu Gly Arg Ala Lys Thr Asn Ile Glu
 20 25 30
 Ile Leu Lys Gln Gln Gln Ser Glu Trp Ile Leu Phe Phe Val Ile Val
 35 40 45
 Gly Gly Leu Lys Asn Ser Pro His Val Ile Ile Val Asn Thr Leu Leu
 50 55 60
 Cys Gly His Cys Asn Ile Trp Gly Val Gly Gln Gly Gly Lys Val Thr
 65 70 75 80
 Ile Val His Met Ser Leu Ala Ser Val Gln Ser Ser Val Gln Asn Val
 85 90 95
 Met Leu Phe Cys Lys Lys Arg Phe Met Ile Phe Lys Ile Asn Leu Val
 100 105 110
 Asn Leu Phe Leu Val Val Ile Phe Phe Leu Arg Gln Ser Phe
 115 120 125

<210> 4612

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4612

Gln Glu Leu Arg Ser Pro Ser Arg Ser Pro Ser Pro Pro Pro Lys Ser
 1 5 10 15
 Pro Pro Trp Thr Thr Gly Gly Ser Leu Cys Glu Gln Leu Ala Phe Arg
 20 25 30
 Lys Pro Leu Ser Val Phe Lys Gln Lys Val Glu Gly Ala Thr Lys Gln
 35 40 45
 Ala Ala Val Arg Ala Ser Xaa Cys Arg Pro Leu Pro Cys Ser Ser Ser
 50 55 60
 Ser Phe Ala Ser Ala Ser Ser Val Met Phe Cys Leu Glu Phe Tyr Leu
 65 70 75 80
 Asp Phe Phe Ser Gly Tyr Phe Ser Val Phe Gln Pro Leu Leu

4183

85

90

<210> 4613

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4613

Lys	Lys	Ser	Leu	Arg	Cys	Glu	Tyr	Arg	Ile	Asp	Ile	Glu	Arg	Leu	Tyr
1				5					10					15	

Met	Ser	Lys	Thr	His	Leu	Ser	Ser	Ser	His	Arg	Pro	Leu	Gln	Ser	Gly
			20					25					30		

His	Val	Gly	Gln	Xaa	Gly	Thr	Gly	Ala	Gly	Asp	Ala	Pro	Pro	Gly	Gln
		35					40					45			

Asn	Ala	Pro	Phe	Val	Ala	Leu	Pro	Asp	Thr	Xaa	Tyr	Leu	Leu	Xaa	Lys
		50				55					60				

Arg	Glu	Thr	Gly	Ser
65				

<210> 4614

<211> 165

<212> PRT

<213> Homo sapiens

<400> 4614

Asp	Pro	Arg	Thr	Met	Asn	Leu	Ala	Ile	Ser	Ile	Ala	Leu	Leu	Leu	Thr
1				5					10					15	

4184

Val Leu Gln Val Ser Arg Gly Gln Lys Val Thr Ser Leu Thr Ala Cys
 20 25 30
 Leu Val Asp Gln Ser Leu Arg Leu Asp Cys Arg His Glu Asn Thr Ser
 35 40 45
 Ser Ser Pro Ile Gln Tyr Glu Phe Ser Leu Thr Arg Glu Thr Lys Lys
 50 55 60
 His Val Leu Phe Gly Thr Val Gly Val Pro Glu His Thr Tyr Arg Ser
 65 70 75 80
 Arg Thr Asn Phe Thr Ser Lys Tyr Asn Met Lys Val Leu Tyr Leu Ser
 85 90 95
 Ala Phe Thr Ser Lys Asp Glu Gly Thr Tyr Thr Cys Ala Leu His His
 100 105 110
 Ser Gly His Ser Pro Pro Ile Ser Ser Gln Asn Val Thr Val Leu Arg
 115 120 125
 Asp Lys Leu Val Lys Cys Glu Gly Ile Ser Leu Leu Ala Gln Asn Thr
 130 135 140
 Ser Trp Leu Leu Leu Leu Leu Leu Ser Leu Ser Leu Leu Gln Ala Thr
 145 150 155 160
 Asp Phe Met Ser Leu
 165

<210> 4615

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4615

Ser Leu Cys Phe Ile Asp Gly Lys Tyr His Lys Gln Ile Lys Ile Glu
 1 5 10 15
 Glu Asn Ala Thr Gly Phe Ser Tyr Glu Ser Leu Phe Arg Glu Tyr Leu
 20 25 30
 Asn Glu Thr Val Thr Glu Val Trp Ile Glu Asp Pro Tyr Ile Arg His
 35 40 45

4185

Thr His Gln Gly Ile Asp Gln Val Gln Gln Ser Arg Gly Leu Gln Glu
 50 55 60

Ile Glu Glu Ser Leu Arg Ser His Gly Ser Ala Xaa Gly Arg Ser Ile
 65 70 75 80

Leu Phe Phe Asn Thr
 85

<210> 4616

<211> 366

<212> PRT

<213> Homo sapiens

<400> 4616

Pro Gly Ser Thr His Ala Ser Gly Lys Ile Gln Asn Lys Trp Leu Arg
 1 5 10 15

Pro Ser Pro Arg Ser His Arg Thr Pro Glu Ser Gly Arg Val Leu Ser
 20 25 30

Leu Phe Arg Leu Pro Pro Pro Gly Met Ala Leu Ser Gly Ser Thr Pro
 35 40 45

Ala Pro Cys Trp Glu Glu Asp Glu Cys Leu Asp Tyr Tyr Gly Met Leu
 50 55 60

Ser Leu His Arg Met Phe Glu Val Val Gly Gly Gln Leu Thr Glu Cys
 65 70 75 80

Glu Leu Glu Leu Leu Ala Phe Leu Leu Asp Glu Ala Pro Gly Ala Ala
 85 90 95

Gly Gly Leu Ala Arg Ala Arg Ser Gly Leu Glu Leu Leu Leu Glu Leu
 100 105 110

Glu Arg Arg Gly Gln Cys Asp Glu Ser Asn Leu Arg Leu Leu Gly Gln
 115 120 125

Leu Leu Arg Val Leu Ala Arg His Asp Leu Leu Pro His Leu Ala Arg
 130 135 140

Lys Arg Arg Arg Pro Val Ser Pro Glu Arg Tyr Ser Tyr Gly Thr Ser
 145 150 155 160

Ser Ser Ser Lys Arg Thr Glu Gly Ser Cys Arg Arg Arg Arg Gln Ser
 165 170 175

4186

Ser Ser Ser Ala Asn Ser Gln Gln Gly Gln Trp Glu Thr Gly Ser Pro
 180 185 190
 Pro Thr Lys Arg Gln Arg Arg Ser Arg Gly Arg Pro Ser Gly Gly Ala
 195 200 205
 Arg Arg Arg Arg Arg Gly Ala Pro Ala Ala Pro Gln Gln Gln Ser Glu
 210 215 220
 Pro Ala Arg Pro Ser Ser Glu Gly Lys Val Thr Cys Asp Ile Arg Leu
 225 230 235 240
 Arg Val Arg Ala Glu Tyr Cys Glu His Gly Pro Ala Leu Glu Gln Gly
 245 250 255
 Val Ala Ser Arg Arg Pro Gln Ala Leu Ala Arg Gln Leu Asp Val Phe
 260 265 270
 Gly Gln Ala Thr Ala Val Leu Arg Ser Arg Asp Leu Gly Ser Val Val
 275 280 285
 Cys Asp Ile Lys Phe Ser Glu Leu Ser Tyr Leu Asp Ala Phe Trp Gly
 290 295 300
 Asp Tyr Leu Ser Gly Ala Leu Leu Gln Ala Leu Arg Gly Val Phe Leu
 305 310 315 320
 Thr Glu Ala Leu Arg Glu Ala Val Gly Arg Glu Ala Val Arg Leu Leu
 325 330 335
 Val Ser Val Asp Glu Ala Asp Tyr Glu Ala Gly Arg Arg Arg Leu Leu
 340 345 350
 Leu Met Glu Glu Glu Gly Gly Arg Arg Pro Thr Glu Ala Ser
 355 360 365

<210> 4617

<211> 482

<212> PRT

<213> Homo sapiens

<400> 4617

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr
 1 5 10 15
 Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Met Val Leu Gln
 20 25 30
 Thr Thr Lys Gly Leu Arg Leu Leu Phe Asp Gly Asp Ala His Leu Leu

4187

35	40	45
Met Ser Ile Pro Ser Pro Phe Arg Gly Arg Leu Cys Gly Leu Cys Gly		
50	55	60
Asn Phe Asn Gly Asn Trp Ser Asp Asp Phe Val Leu Pro Asn Gly Ser		
65	70	75
80		
Ala Ala Ser Ser Val Glu Thr Phe Gly Ala Ala Trp Arg Val Pro Gly		
85	90	95
Ser Ser Lys Gly Cys Gly Glu Gly Cys Gly Pro Gln Gly Cys Pro Val		
100	105	110
Cys Leu Ala Glu Glu Thr Ala Pro Tyr Glu Ser Asn Glu Ala Cys Gly		
115	120	125
Gln Leu Arg Asn Pro Gln Gly Pro Phe Ala Thr Cys Gln Ala Val Leu		
130	135	140
Ser Pro Ser Glu Tyr Phe Arg Gln Cys Val Tyr Asp Leu Cys Ala Gln		
145	150	155
160		
Lys Gly Asp Lys Ala Phe Leu Cys Arg Ser Leu Ala Ala Tyr Thr Ala		
165	170	175
Ala Cys Gln Ala Ala Gly Val Ala Val Lys Pro Trp Arg Thr Asp Ser		
180	185	190
Phe Cys Pro Leu His Cys Pro Ala His Ser His Tyr Ser Ile Cys Thr		
195	200	205
Arg Thr Cys Gln Gly Ser Cys Ala Ala Leu Ser Gly Leu Thr Gly Cys		
210	215	220
Thr Thr Arg Cys Phe Glu Gly Cys Glu Cys Asp Asp Arg Phe Leu Leu		
225	230	235
240		
Ser Gln Gly Val Cys Ile Pro Val Gln Asp Cys Gly Cys Thr His Asn		
245	250	255
Gly Arg Tyr Leu Pro Val Asn Ser Ser Leu Leu Thr Ser Asp Cys Ser		
260	265	270
Glu Arg Cys Ser Cys Ser Ser Ser Ser Gly Leu Thr Cys Gln Ala Ala		
275	280	285
Gly Cys Pro Pro Gly Arg Val Cys Glu Val Lys Ala Glu Ala Arg Asn		
290	295	300
Cys Trp Ala Thr Arg Gly Leu Cys Val Leu Ser Val Gly Ala Asn Leu		

4188

305 310 315 320
 Thr Thr Phe Asp Gly Ala Arg Gly Ala Thr Thr Ser Pro Gly Val Tyr
 325 330 335
 Glu Leu Ser Ser Arg Cys Pro Gly Leu Gln Asn Thr Ile Pro Trp Tyr
 340 345 350
 Arg Val Val Ala Glu Val Gln Ile Cys His Gly Lys Thr Glu Ala Val
 355 360 365
 Gly Gln Val His Ile Phe Phe Gln Asp Gly Met Val Thr Leu Thr Pro
 370 375 380
 Asn Lys Gly Val Trp Val Asn Gly Leu Arg Val Asp Leu Pro Ala Glu
 385 390 395 400
 Lys Leu Ala Ser Val Ser Val Ser Arg Thr Pro Asp Gly Ser Leu Leu
 405 410 415
 Val Arg Gln Lys Ala Gly Val Gln Val Trp Leu Gly Ala Asn Gly Lys
 420 425 430
 Val Ala Val Ile Val Ser Asn Asp His Ala Gly Lys Leu Cys Gly Ala
 435 440 445
 Cys Gly Asn Phe Asp Gly Asp Gln Thr Asn Asp Trp His Asp Ser Gln
 450 455 460
 Glu Lys Pro Ala Met Glu Lys Trp Arg Ala Gln Asp Phe Ser Pro Cys
 465 470 475 480
 Tyr Gly

<210> 4618

<211> 552

<212> PRT

<213> Homo sapiens

<400> 4618

Thr Val Gly Ser Asp Arg Asp Thr Leu Ala Lys Arg Leu Pro Ala Ala
 1 5 10 15
 Ala Ser Gly Gly Thr Ser Ile Cys Ser Gly Leu Arg Ser Ala Phe Thr
 20 25 30
 Val Ile Arg Lys Lys Tyr Pro Thr Asp Gly Ser Glu Ile Val Leu Leu
 35 40 45

4189

Thr Asp Gly Glu Asp Asn Thr Ile Ser Gly Cys Phe Asn Glu Val Lys
 50 55 60
 Gln Ser Gly Ala Ile Ile His Thr Val Ala Leu Gly Pro Ser Ala Ala
 65 70 75 80
 Gln Glu Leu Glu Glu Leu Ser Lys Met Thr Gly Gly Leu Gln Thr Tyr
 85 90 95
 Ala Ser Asp Gln Val Gln Asn Asn Gly Leu Ile Asp Ala Phe Gly Ala
 100 105 110
 Leu Ser Ser Gly Asn Gly Ala Val Ser Gln Arg Ser Ile Gln Leu Glu
 115 120 125
 Ser Lys Gly Leu Thr Leu Gln Asn Ser Gln Trp Met Asn Gly Thr Val
 130 135 140
 Ile Val Asp Ser Thr Val Gly Lys Asp Thr Leu Phe Leu Ile Thr Trp
 145 150 155 160
 Thr Thr Gln Pro Pro Gln Ile Leu Leu Trp Asp Pro Ser Gly Gln Lys
 165 170 175
 Gln Gly Gly Phe Val Val Asp Lys Asn Thr Lys Met Ala Tyr Leu Gln
 180 185 190
 Ile Pro Gly Ile Ala Lys Val Gly Thr Trp Lys Tyr Ser Leu Gln Ala
 195 200 205
 Ser Ser Gln Thr Leu Thr Leu Thr Val Thr Ser Arg Ala Ser Asn Ala
 210 215 220
 Thr Leu Pro Pro Ile Thr Val Thr Ser Lys Thr Asn Lys Asp Thr Ser
 225 230 235 240
 Lys Phe Pro Ser Pro Leu Val Val Tyr Ala Asn Ile Arg Gln Gly Ala
 245 250 255
 Ser Pro Ile Leu Arg Ala Ser Val Thr Ala Leu Ile Glu Ser Val Asn
 260 265 270
 Gly Lys Thr Val Thr Leu Glu Leu Leu Asp Asn Gly Ala Gly Ala Asp
 275 280 285
 Ala Thr Lys Asp Asp Gly Val Tyr Ser Arg Tyr Phe Thr Thr Tyr Asp
 290 295 300
 Thr Asn Gly Arg Tyr Ser Val Lys Val Arg Ala Leu Gly Gly Val Asn
 305 310 315 320

4190

Ala Ala Arg Arg Arg Val Ile Pro Gln Gln Ser Gly Ala Leu Tyr Ile
 325 330 335
 Pro Gly Trp Ile Glu Asn Asp Glu Ile Gln Trp Asn Pro Pro Arg Pro
 340 345 350
 Glu Ile Asn Lys Asp Asp Val Gln His Lys Gln Val Cys Phe Ser Arg
 355 360 365
 Thr Ser Ser Gly Gly Ser Phe Val Ala Ser Asp Val Pro Asn Ala Pro
 370 375 380
 Ile Pro Asp Leu Phe Pro Pro Gly Gln Ile Thr Asp Leu Lys Ala Glu
 385 390 395 400
 Ile His Gly Gly Ser Leu Ile Asn Leu Thr Trp Thr Ala Pro Gly Asp
 405 410 415
 Asp Tyr Asp His Gly Thr Ala His Lys Tyr Ile Ile Arg Ile Ser Thr
 420 425 430
 Ser Ile Leu Asp Leu Arg Asp Lys Phe Asn Glu Ser Leu Gln Val Asn
 435 440 445
 Thr Thr Ala Leu Ile Pro Lys Glu Ala Asn Ser Glu Glu Val Phe Leu
 450 455 460
 Phe Lys Pro Glu Thr Ile Thr Phe Glu Asn Gly Thr Asp Leu Phe Ile
 465 470 475 480
 Ala Ile Gln Ala Val Asp Lys Val Asp Leu Lys Ser Glu Ile Ser Asn
 485 490 495
 Ile Ala Arg Val Ser Leu Phe Ile Pro Pro Gln Thr Pro Pro Glu Thr
 500 505 510
 Pro Ser Pro Asp Glu Thr Ser Ala Pro Cys Pro Asn Ile His Ile Asn
 515 520 525
 Ser Thr Ile Pro Gly Ile His Ile Leu Lys Ile Met Trp Lys Trp Ile
 530 535 540
 Gly Glu Leu Gln Leu Ser Ile Ala
 545 550

<210> 4619

<211> 501

<212> PRT

4191

<213> Homo sapiens

<220>

<221> SITE

<222> (179)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4619

Gly	Thr	Ser	Gly	Gly	Gly	Ala	Gly	Ala	Met	Ala	Val	Leu	Leu	Glu	Thr
1				5					10					15	
Thr	Leu	Gly	Asp	Val	Val	Ile	Asp	Leu	Tyr	Thr	Glu	Glu	Arg	Pro	Arg
			20					25					30		
Ala	Cys	Leu	Asn	Phe	Leu	Lys	Leu	Cys	Lys	Ile	Lys	Tyr	Tyr	Asn	Tyr
		35					40					45			
Cys	Leu	Ile	His	Asn	Val	Gln	Arg	Asp	Phe	Ile	Ile	Gln	Thr	Gly	Asp
	50					55					60				
Pro	Thr	Gly	Thr	Gly	Arg	Gly	Gly	Glu	Ser	Ile	Phe	Gly	Gln	Leu	Tyr
65					70					75					80
Gly	Asp	Gln	Ala	Ser	Phe	Phe	Glu	Ala	Glu	Lys	Val	Pro	Arg	Ile	Lys
				85					90					95	
His	Lys	Lys	Lys	Gly	Thr	Val	Ser	Met	Val	Asn	Asn	Gly	Ser	Asp	Gln
			100					105					110		
His	Gly	Ser	Gln	Phe	Leu	Ile	Thr	Thr	Gly	Glu	Asn	Leu	Asp	Tyr	Leu
	115						120					125			
Asp	Gly	Val	His	Thr	Val	Phe	Gly	Glu	Val	Thr	Glu	Gly	Met	Asp	Ile
	130					135					140				
Ile	Lys	Lys	Ile	Asn	Glu	Thr	Phe	Val	Asp	Lys	Asp	Phe	Val	Pro	Tyr
145					150					155				160	
Gln	Asp	Ile	Arg	Ile	Asn	His	Thr	Val	Ile	Leu	Asp	Asp	Pro	Phe	Asp
				165					170					175	
Asp	Pro	Xaa	Asp	Leu	Leu	Ile	Pro	Asp	Arg	Ser	Pro	Glu	Pro	Thr	Arg
			180					185					190		
Glu	Gln	Leu	Asp	Ser	Gly	Arg	Ile	Gly	Ala	Asp	Glu	Glu	Ile	Asp	Asp
	195						200					205			
Phe	Lys	Gly	Arg	Ser	Ala	Glu	Glu	Val	Glu	Glu	Ile	Lys	Ala	Glu	Lys
	210					215					220				
Glu	Ala	Lys	Thr	Gln	Ala	Ile	Leu	Leu	Glu	Met	Val	Gly	Asp	Leu	Pro

4192

[illegible]

4193

500

<210> 4620

<211> 63

<212> PRT

<213> Homo sapiens

<400> 4620

Asn Phe Leu Leu Phe Thr Asn Ser Asp Glu Ile Gln Phe Phe Arg Arg
 1 5 10 15

Leu Ser Phe Leu Glu Gln Ala Thr Ser Leu Pro Leu Glu Cys Pro Ile
 20 25 30

Thr Tyr Ser Ser Thr Phe Ser Phe Cys Ser Arg Cys Leu Leu Lys Arg
 35 40 45

Ser Gly Ala Val Gly Gly Tyr Ala His Leu Ser Ser Ser Val Gln
 50 55 60

<210> 4621

<211> 50

<212> PRT

<213> Homo sapiens

<400> 4621

Ser Gln His Phe Gly Arg Pro Arg Trp Thr Asp His Leu Arg Ser Gly
 1 5 10 15

Val Arg Asp Gln Pro Gly Gln His Gly Gln Thr Trp Ser Leu Leu Lys
 20 25 30

Ile Gln Lys Leu Ala Gly Val Ala Arg Cys Arg Ala Val Trp Gly Arg
 35 40 45

His Gly
 50

<210> 4622

<211> 81

<212> PRT

<213> Homo sapiens

<400> 4622

Gly Thr Arg Trp Pro Cys Gly Lys His Lys Arg Val Leu Ile Phe Pro

1	5	10	15
Ser Tyr Met Thr Thr Val Ile Asp Tyr Val Lys Pro Ser Asp Leu Lys	20	25	30
Lys Asp Met Asn Glu Thr Phe Lys Glu Lys Phe Pro His Ile Lys Leu	35	40	45
Thr Leu Ser Lys Ile Arg Ser Leu Lys Arg Glu Met Arg Asn Leu Arg	50	55	60
Arg Arg Thr Val Ala Leu Arg Ser Pro Arg Trp Pro Trp Pro Arg Leu	65	70	75
Leu			80

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<210> 4623
<211> 139
<212> PRT
<213> Homo sapiens
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<400> 4623
Ser Gln His Phe Leu Ser Leu Pro Leu Trp Phe Glu Gly Tyr Gly Leu
  1             5             10             15

Leu Gln Tyr Ile Ser Ser Phe Lys Ser Cys His Cys Phe Val Gly Pro
      20             25             30

Gln Leu Ile Gly Pro Gln Asn Lys Pro Cys Cys Phe Ala His Thr Leu
      35             40             45

Ala Phe Phe Cys Thr Phe His Ser Gly Trp Ala Trp Pro Lys Gln Ala
      50             55             60

Gln Ala Lys Asp Leu Pro Ser Cys Met Tyr Phe Gln Tyr Pro Glu Thr
      65             70             75             80

Val Phe Gly Asp Ile Met Pro Arg Val Asn Lys Pro Asp Leu Gly Thr
      85             90             95

Ala Leu Ser Arg Gly Phe Thr His Glu Ile Asn Lys Thr Tyr Leu Ser
      100            105            110

His Leu Lys Leu Gly Ser Gln Lys Thr His Phe Trp Phe Ile Ile Ser
      115            120            125

Phe Tyr Ala His Leu Thr Leu Ile Ile Tyr Pro
      130            135

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4195

<210> 4624

<211> 90

<212> PRT

<213> Homo sapiens

<400> 4624

Gly Thr Arg Arg His Pro Ala Pro Ser Ala Gly Cys Ala Ser Gly Ala
 1 5 10 15

Glu Val Arg Asp Lys Met Val Pro Pro Val Gln Val Ser Pro Leu Ile
 20 25 30

Lys Leu Gly Arg Tyr Ser Ala Leu Phe Leu Gly Val Ala Tyr Gly Ala
 35 40 45

Thr Arg Tyr Asn Tyr Leu Lys Pro Arg Ala Glu Glu Glu Arg Arg Ile
 50 55 60

Ala Ala Glu Glu Lys Lys Lys Gln Asp Glu Leu Lys Arg Ile Ala Arg
 65 70 75 80

Glu Leu Ala Glu Asp Asp Ser Ile Leu Lys
 85 90

<210> 4625

<211> 328

<212> PRT

<213> Homo sapiens

<400> 4625

Gln Ala Thr Gly Gly Pro Glu Leu Ala Ser Ser Val Leu Ser Pro Leu
 1 5 10 15

Leu Asn Lys Asp Thr Ile Asp Phe Leu Asn Tyr Thr Val Asn Gly Asp
 20 25 30

Glu Arg Gln Leu Trp Met Ser Leu Gly Gly Thr Trp Met Lys Ala Arg
 35 40 45

Ala Glu Trp Pro Lys Glu Gln Phe Ile Pro Pro Tyr Val Pro Arg Phe
 50 55 60

Arg Asn Gly Trp Glu Pro Pro Met Leu Asn Phe Met Gly Ala Thr Met
 65 70 75 80

Glu Gln Asp Leu Tyr Gln Leu Ala Glu Ser Val Ala Asn Val Ala Glu

4196

	85		90		95
His Gln Arg Lys Gln Glu Ile Lys Arg Leu Ser Thr Glu His Ser Ser	100	105	110		
Val Ser Glu Tyr His Pro Ala Asp Gly Tyr Ala Phe Ser Ser Asn Ile	115	120	125		
Tyr Thr Arg Gly Ser His Leu Asp Gln Gly Glu Ala Val Ala Phe	130	135	140		
Lys Pro Thr Ser Asn Arg His Ile Asp Arg Asn Tyr Glu Pro Leu Lys	145	150	155	160	
Thr Gln Pro Lys Lys Tyr Ala Lys Ser Lys Tyr Asp Phe Val Ala Arg	165	170	175		
Asn Asn Ser Glu Leu Ser Val Leu Lys Asp Asp Ile Leu Glu Ile Leu	180	185	190		
Asp Asp Arg Lys Gln Trp Trp Lys Val Arg Asn Ala Ser Gly Asp Ser	195	200	205		
Gly Phe Val Pro Asn Asn Ile Leu Asp Ile Val Arg Pro Pro Glu Ser	210	215	220		
Gly Leu Gly Arg Ala Asp Pro Pro Tyr Thr His Thr Ile Gln Lys Gln	225	230	235	240	
Arg Met Glu Tyr Gly Pro Arg Pro Ala Asp Thr Pro Pro Ala Pro Ser	245	250	255		
Pro Pro Pro Thr Pro Ala Pro Val Pro Val Pro Leu Pro Pro Ser Thr	260	265	270		
Pro Ala Pro Val Pro Val Ser Lys Val Pro Ala Asn Ile Thr Arg Gln	275	280	285		
Asn Ser Ser Ser Ser Asp Ser Gly Gly Ser Ile Val Arg Asp Ser Gln	290	295	300		
Arg His Lys Gln Leu Pro Val Asp Arg Arg Asn Leu Arg Trp Arg Lys	305	310	315	320	
Cys Lys Met Asn Ser Ser Thr Asp	325				

<210> 4626

<211> 578

4197

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4626

Gly	Val	Gly	Asp	Gly	Gln	Ala	Pro	Met	Pro	Gly	Xaa	Thr	Glu	Glu	Pro
1				5					10					15	

Arg	Pro	Pro	Glu	Gln	Gln	Asp	Gln	Glu	Gly	Gly	Glu	Ala	Ala	Lys	Ala
			20					25					30		

Ala	Pro	Glu	Xaa	Pro	Gln	Gln	Arg	Pro	Pro	Glu	Ala	Val	Ala	Ala	Ala
			35				40					45			

Pro	Ala	Gly	Thr	Thr	Ser	Ser	Arg	Val	Leu	Arg	Gly	Gly	Arg	Asp	Arg
			50				55				60				

Gly	Arg	Ala	Ala	Ala	Ala	Arg	Arg	Arg	Xaa	Ser	Cys	Val	Pro	Pro	Glu
	65					70				75					80

Xaa	Gly	Arg	Val	Ser	Pro	Pro	Ala	Xaa	Glu	Gln	Pro	Gln	Arg	Gln	Ala
				85					90					95	

Ser	Arg	Arg	Pro	Arg	Ala	Ala	Ala	Gln	Ala	Ala	Lys	Ser	Pro	Ser	Pro
			100					105					110		

Val	Gln	Gly	Lys	Lys	Ser	Pro	Arg	Leu	Leu	Cys	Ile	Glu	Lys	Val	Thr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4198

115		120		125
Thr Asp Lys Asp Pro Lys Glu Glu Lys Glu Glu Glu Asp Asp Ser Ala				
130		135		140
Leu Pro Gln Glu Val Ser Ile Ala Ala Ser Arg Pro Ser Arg Gly Trp				
145		150		155
				160
Arg Ser Ser Arg Thr Ser Val Ser Arg His Arg Asp Thr Glu Asn Thr				
		165		170
				175
Arg Ser Ser Arg Ser Lys Thr Gly Ser Leu Gln Leu Ile Cys Lys Ser				
		180		185
				190
Glu Pro Asn Thr Asp Gln Leu Asp Tyr Asp Val Gly Glu Glu His Gln				
		195		200
				205
Ser Pro Gly Gly Ile Ser Ser Glu Glu Glu Glu Glu Glu Glu Glu				
		210		215
				220
Met Leu Ile Ser Glu Glu Glu Ile Pro Phe Lys Asp Asp Pro Arg Asp				
		225		230
				235
				240
Glu Thr Tyr Lys Pro His Leu Glu Arg Glu Thr Pro Lys Pro Arg Arg				
		245		250
				255
Lys Ser Gly Lys Val Lys Glu Glu Lys Glu Lys Lys Glu Ile Lys Val				
		260		265
				270
Glu Val Glu Val Glu Val Lys Glu Glu Glu Asn Glu Ile Arg Glu Asp				
		275		280
				285
Glu Glu Pro Pro Arg Lys Arg Gly Arg Arg Arg Lys Asp Asp Lys Ser				
		290		295
				300
Pro Arg Leu Pro Lys Arg Arg Lys Lys Pro Pro Ile Gln Tyr Val Arg				
		305		310
				315
				320
Cys Glu Met Glu Gly Cys Gly Thr Val Leu Ala His Pro Arg Tyr Leu				
		325		330
				335
Gln His His Ile Lys Tyr Gln His Leu Leu Lys Lys Lys Tyr Val Cys				
		340		345
				350
Pro His Pro Ser Cys Gly Arg Leu Phe Arg Leu Gln Lys Gln Leu Leu				
		355		360
				365
Arg His Ala Lys His His Thr Asp Gln Arg Asp Tyr Ile Cys Glu Tyr				
		370		375
				380
Cys Ala Arg Ala Phe Lys Ser Ser His Asn Leu Ala Val His Arg Met				

4199

385 390 395 400
 Ile His Thr Gly Glu Lys Pro Leu Gln Cys Glu Ile Cys Gly Phe Thr
 405 410 415
 Cys Arg Gln Lys Ala Ser Leu Asn Trp His Met Lys Lys His Asp Ala
 420 425 430
 Asp Ser Phe Tyr Gln Phe Ser Cys Asn Ile Cys Gly Lys Lys Phe Glu
 435 440 445
 Lys Lys Asp Ser Val Val Ala His Lys Ala Lys Ser His Pro Glu Val
 450 455 460
 Leu Ile Ala Glu Ala Leu Ala Ala Asn Ala Gly Ala Leu Ile Thr Ser
 465 470 475 480
 Thr Asp Ile Leu Gly Thr Asn Pro Glu Ser Leu Thr Gln Pro Ser Asp
 485 490 495
 Gly Gln Gly Leu Pro Leu Leu Pro Glu Pro Leu Gly Asn Ser Thr Ser
 500 505 510
 Gly Glu Cys Leu Leu Leu Glu Ala Glu Gly Met Ser Lys Ser Tyr Cys
 515 520 525
 Ser Gly Thr Glu Arg Val Ser Leu Met Ala Asp Gly Lys Ile Phe Val
 530 535 540
 Gly Ser Gly Ser Ser Gly Gly Thr Glu Gly Leu Val Met Asn Ser Asp
 545 550 555 560
 Ile Leu Gly Ala Thr Thr Glu Val Leu Ile Glu Asp Ser Asp Ser Ala
 565 570 575

Gly Pro

<210> 4627

<211> 263

<212> PRT

<213> Homo sapiens

<400> 4627

Lys Ile Met Ala Ser Pro Asp Trp Gly Tyr Asp Asp Lys Asn Gly Pro
 1 5 10 15

Glu Gln Trp Ser Lys Leu Tyr Pro Ile Ala Asn Gly Asn Asn Gln Ser
 20 25 30

4200

Pro Val Asp Ile Lys Thr Ser Glu Thr Lys His Asp Thr Ser Leu Lys
 35 40 45
 Pro Ile Ser Val Ser Tyr Asn Pro Ala Thr Ala Lys Glu Ile Ile Asn
 50 55 60
 Val Gly His Ser Phe His Val Asn Phe Glu Asp Asn Asp Asn Arg Ser
 65 70 75 80
 Val Leu Lys Gly Gly Pro Phe Ser Asp Ser Tyr Arg Leu Phe Gln Phe
 85 90 95
 His Phe His Trp Gly Ser Thr Asn Glu His Gly Ser Glu His Thr Val
 100 105 110
 Asp Gly Val Lys Tyr Ser Ala Glu Leu His Val Ala His Trp Asn Ser
 115 120 125
 Ala Lys Tyr Ser Ser Leu Ala Glu Ala Ala Ser Lys Ala Asp Gly Leu
 130 135 140
 Ala Val Ile Gly Val Leu Met Lys Val Gly Glu Ala Asn Pro Lys Leu
 145 150 155 160
 Gln Lys Val Leu Asp Ala Leu Gln Ala Ile Lys Thr Lys Gly Lys Arg
 165 170 175
 Ala Pro Phe Thr Asn Phe Asp Pro Ser Thr Leu Leu Pro Ser Ser Leu
 180 185 190
 Asp Phe Trp Thr Tyr Pro Gly Ser Leu Thr His Pro Pro Leu Tyr Glu
 195 200 205
 Ser Val Thr Trp Ile Ile Cys Lys Glu Ser Ile Ser Val Ser Ser Glu
 210 215 220
 Gln Leu Ala Gln Phe Arg Ser Leu Leu Ser Asn Val Glu Gly Asp Asn
 225 230 235 240
 Ala Val Pro Met Gln His Asn Asn Arg Pro Thr Gln Pro Leu Lys Gly
 245 250 255
 Arg Thr Val Arg Ala Ser Phe
 260

<210> 4628

<211> 301

<212> PRT

4201

<213> Homo sapiens

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (185)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4628

Ala Asp Ala Trp Gly Arg Thr Ala Glu Leu Thr Val Thr Ala Ala Leu
 1 5 10 15

Thr Arg Glu Phe Leu Glu Pro Lys Leu Phe Ser Thr Glu Asp Lys Gln
 20 25 30

Ala Ala Glu Thr Met Gly Ser Pro Ser Ala Cys Pro Tyr Arg Val Cys
 35 40 45

Ile Pro Trp Gln Gly Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp
 50 55 60

Asn Leu Pro Asn Ser Ala Gln Thr Asn Ile Asp Val Val Pro Phe Asn
 65 70 75 80

Val Ala Glu Gly Lys Glu Val Leu Leu Val Val His Asn Glu Ser Gln
 85 90 95

Asn Leu Tyr Gly Tyr Asn Trp Tyr Lys Gly Glu Arg Val His Ala Asn
 100 105 110

Tyr Arg Ile Ile Gly Tyr Val Lys Asn Ile Ser Gln Glu Asn Ala Pro
 115 120 125

Gly Pro Ala His Asn Gly Arg Glu Thr Ile Tyr Pro Asn Gly Thr Leu
 130 135 140

Leu Ile Gln Asn Val Thr His Asn Asp Ala Gly Xaa Tyr Thr Leu His
 145 150 155 160

Val Ile Lys Glu Asn Leu Val Asn Glu Glu Val Thr Arg Gln Phe Tyr
 165 170 175

Val Phe Ser Glu Pro Pro Lys Pro Xaa Ile Thr Ser Asn Asn Phe Asn
 180 185 190

Pro Val Glu Asn Lys Asp Ile Val Val Leu Thr Cys Gln Pro Glu Thr
 195 200 205

4202

Gln Asn Thr Thr Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Leu Val
 210 215 220

Ser Pro Arg Leu Leu Leu Ser Thr Asp Asn Arg Thr Leu Val Leu Leu
 225 230 235 240

Ser Ala Thr Lys Asn Asp Ile Gly Pro Tyr Glu Cys Glu Ile Gln Asn
 245 250 255

Pro Val Gly Ala Ser Arg Ser Asp Pro Val Thr Leu Asn Val Arg Tyr
 260 265 270

Glu Ser Val Gln Ala Ser Ser Pro Asp Leu Ser Ala Gly Thr Ala Val
 275 280 285

Ser Ile Met Ile Gly Val Leu Ala Gly Met Ala Leu Ile
 290 295 300

<210> 4629

<211> 256

<212> PRT

<213> Homo sapiens

<400> 4629

Pro Ala Gly Ala Gly Cys Arg Ala Gly Glu Arg Ala Gly Gln Ala Lys
 1 5 10 15

Ala Leu Val Pro Ala Arg Cys Gly Pro Gln Ser Ala Ala Met Gly Ala
 20 25 30

Ser Ala Arg Leu Leu Arg Ala Val Ile Met Gly Ala Pro Gly Ser Gly
 35 40 45

Lys Gly Thr Val Ser Ser Arg Ile Thr Thr His Phe Glu Leu Lys His
 50 55 60

Leu Ser Ser Gly Asp Leu Leu Arg Asp Asn Met Leu Arg Gly Thr Glu
 65 70 75 80

Ile Gly Val Leu Ala Lys Ala Phe Ile Asp Gln Gly Lys Leu Ile Pro
 85 90 95

Asp Asp Val Met Thr Arg Leu Ala Leu His Glu Leu Lys Asn Leu Thr
 100 105 110

Gln Tyr Ser Trp Leu Leu Asp Gly Phe Pro Arg Thr Leu Pro Gln Ala
 115 120 125

4203

Glu Ala Leu Asp Arg Ala Tyr Gln Ile Asp Thr Val Ile Asn Leu Asn
 130 135 140
 Val Pro Phe Glu Val Ile Lys Gln Arg Leu Thr Ala Arg Trp Ile His
 145 150 155 160
 Pro Ala Ser Gly Arg Val Tyr Asn Ile Glu Phe Asn Pro Pro Lys Thr
 165 170 175
 Val Gly Ile Asp Asp Leu Thr Gly Glu Pro Leu Ile Gln Arg Glu Asp
 180 185 190
 Asp Lys Pro Glu Thr Val Ile Lys Arg Leu Lys Ala Tyr Glu Asp Gln
 195 200 205
 Thr Lys Pro Val Leu Glu Tyr Tyr Gln Lys Lys Gly Val Leu Glu Thr
 210 215 220
 Phe Ser Gly Thr Glu Thr Asn Lys Ile Trp Pro Tyr Val Tyr Ala Phe
 225 230 235 240
 Leu Gln Thr Lys Val Pro Gln Arg Ser Gln Lys Ala Ser Val Thr Pro
 245 250 255

<210> 4630

<211> 102

<212> PRT

<213> Homo sapiens

<400> 4630

Asp Trp Gly Leu Ala Arg Ser Arg Pro Gly Cys Lys Cys Cys Gly Gly
 1 5 10 15
 Arg Lys Ser Arg Pro His Arg Arg Gly Ser Ala Val Met Pro Lys Tyr
 20 25 30
 Tyr Glu Asp Lys Pro Gln Ala Ala Arg Cys Ala Gly Leu Lys Glu Asp
 35 40 45
 Leu Gly Ala Cys Leu Leu Gln Ser Asp Cys Val Val Gln Glu Gly Lys
 50 55 60
 Ser Pro Arg Gln Cys Leu Lys Glu Gly Tyr Cys Asn Ser Leu Lys Tyr
 65 70 75 80
 Ala Phe Phe Glu Cys Lys Arg Ser Val Leu Asp Asn Arg Ala Arg Phe

4204

85

90

95

Arg Gly Arg Lys Gly Tyr
100

<210> 4631

<211> 466

<212> PRT

<213> Homo sapiens

<400> 4631

Glu His Gln Glu Ile Met Asn Asn Phe Gly Asn Glu Glu Phe Asp Cys
1 5 10 15

His Phe Leu Asp Glu Gly Phe Thr Ala Lys Asp Ile Leu Asp Gln Lys
20 25 30

Ile Asn Glu Val Ser Ser Ser Asp Asp Lys Asp Ala Phe Tyr Val Ala
35 40 45

Asp Leu Gly Asp Ile Leu Lys Lys His Leu Arg Trp Leu Lys Ala Leu
50 55 60

Pro Arg Val Thr Pro Phe Tyr Ala Val Lys Cys Asn Asp Ser Lys Ala
65 70 75 80

Ile Val Lys Thr Leu Ala Ala Thr Gly Thr Gly Phe Asp Cys Ala Ser
85 90 95

Lys Thr Glu Ile Gln Leu Val Gln Ser Leu Gly Val Pro Pro Glu Arg
100 105 110

Ile Ile Tyr Ala Asn Pro Cys Lys Gln Val Ser Gln Ile Lys Tyr Ala
115 120 125

Ala Asn Asn Gly Val Gln Met Met Thr Phe Asp Ser Glu Val Glu Leu
130 135 140

Met Lys Val Ala Arg Ala His Pro Lys Ala Lys Leu Val Leu Arg Ile
145 150 155 160

Ala Thr Asp Asp Ser Lys Ala Val Cys Arg Leu Ser Val Lys Phe Gly
165 170 175

Ala Thr Leu Arg Thr Ser Arg Leu Leu Leu Glu Arg Ala Lys Glu Leu
180 185 190

Asn Ile Asp Val Val Gly Val Ser Phe His Val Gly Ser Gly Cys Thr
195 200 205

4205

Asp Pro Glu Thr Phe Val Gln Ala Ile Ser Asp Ala Arg Cys Val Phe
 210 215 220
 Asp Met Gly Ala Glu Val Gly Phe Ser Met Tyr Leu Leu Asp Ile Gly
 225 230 235 240
 Gly Gly Phe Pro Gly Ser Glu Asp Val Lys Leu Lys Phe Glu Glu Ile
 245 250 255
 Thr Gly Val Ile Asn Pro Ala Leu Asp Lys Tyr Phe Pro Ser Asp Ser
 260 265 270
 Gly Val Arg Ile Ile Ala Glu Pro Gly Arg Tyr Tyr Val Ala Ser Ala
 275 280 285
 Phe Thr Leu Ala Val Asn Ile Ile Ala Lys Lys Ile Val Leu Lys Glu
 290 295 300
 Gln Thr Gly Ser Asp Asp Glu Asp Glu Ser Ser Glu Gln Thr Phe Met
 305 310 315 320
 Tyr Tyr Val Asn Asp Gly Val Tyr Gly Ser Phe Asn Cys Ile Leu Tyr
 325 330 335
 Asp His Ala His Val Lys Pro Leu Leu Gln Lys Arg Pro Lys Pro Asp
 340 345 350
 Glu Lys Tyr Tyr Ser Ser Ser Ile Trp Gly Pro Thr Cys Asp Gly Leu
 355 360 365
 Asp Arg Ile Val Glu Arg Cys Asp Leu Pro Glu Met His Val Gly Asp
 370 375 380
 Trp Met Leu Phe Glu Asn Met Gly Ala Tyr Thr Val Ala Ala Ala Ser
 385 390 395 400
 Thr Phe Asn Gly Phe Gln Arg Pro Thr Ile Tyr Tyr Val Met Ser Gly
 405 410 415
 Pro Ala Trp Gln Leu Met Gln Gln Phe Gln Asn Pro Asp Phe Pro Pro
 420 425 430
 Glu Val Glu Glu Gln Asp Ala Ser Thr Leu Pro Val Ser Cys Ala Trp
 435 440 445
 Glu Ser Gly Met Lys Arg His Arg Ala Ala Cys Ala Ser Ala Ser Ile
 450 455 460
 Asn Val
 465

4206

<210> 4632

<211> 178

<212> PRT

<213> Homo sapiens

<400> 4632

Asn Ser Ala Arg Gly His Cys Trp Leu Arg Leu Arg Ser Gly Pro Trp
1 5 10 15

Ile Ser Ser Lys Met Ala Ala Arg Ser Val Ser Gly Ile Thr Arg Arg
20 25 30

Val Phe Met Trp Thr Val Ser Gly Thr Pro Cys Arg Glu Phe Trp Ser
35 40 45

Arg Phe Arg Lys Glu Lys Glu Pro Val Val Val Glu Thr Val Glu Glu
50 55 60

Lys Lys Glu Pro Ile Leu Val Cys Pro Pro Leu Arg Ser Arg Ala Tyr
65 70 75 80

Thr Pro Pro Glu Asp Leu Gln Ser Arg Leu Glu Ser Tyr Val Lys Glu
85 90 95

Val Phe Gly Ser Ser Leu Pro Ser Asn Trp Gln Asp Ile Ser Leu Glu
100 105 110

Asp Ser Arg Leu Lys Phe Asn Leu Leu Ala His Leu Ala Asp Asp Leu
115 120 125

Gly His Val Val Pro Asn Ser Arg Leu His Gln Met Cys Arg Val Arg
130 135 140

Asp Val Leu Asp Phe Tyr Asn Val Pro Ile Gln Asp Arg Ser Lys Phe
145 150 155 160

Asp Glu Leu Ser Ala Ser Asn Leu Pro Pro Asn Leu Lys Ile Thr Trp
165 170 175

Ser Tyr

<210> 4633

<211> 273

<212> PRT

<213> Homo sapiens

4207

<400> 4633

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Arg Pro Ala Pro Ala Gly Ala Arg Pro Pro Leu Ile Pro Asp Pro Ala
 1             5             10             15

Val Gly Ala Met Ala Glu Ala Val Leu Arg Val Ala Arg Arg Gln Leu
          20             25             30

Ser Gln Arg Gly Gly Ser Gly Ala Pro Ile Leu Leu Arg Gln Met Phe
          35             40             45

Glu Pro Val Ser Cys Thr Phe Thr Tyr Leu Leu Gly Asp Arg Glu Ser
 50             55             60

Arg Glu Ala Val Leu Ile Asp Pro Val Leu Glu Thr Ala Pro Arg Asp
 65             70             75             80

Ala Gln Leu Ile Lys Glu Leu Gly Leu Arg Leu Leu Tyr Ala Val Asn
          85             90             95

Thr His Cys His Ala Asp His Ile Thr Gly Ser Gly Leu Leu Arg Ser
          100            105            110

Leu Leu Pro Gly Cys Gln Ser Val Ile Ser Arg Leu Ser Gly Ala Gln
          115            120            125

Ala Asp Leu His Ile Glu Asp Gly Asp Ser Ile Arg Phe Gly Arg Phe
          130            135            140

Ala Leu Glu Thr Arg Ala Ser Pro Gly His Thr Pro Gly Cys Val Thr
          145            150            155            160

Phe Val Leu Asn Asp His Ser Met Ala Phe Thr Gly Asp Ala Leu Leu
          165            170            175

Ile Arg Gly Cys Gly Arg Thr Asp Phe Gln Gln Gly Cys Ala Lys Thr
          180            185            190

Leu Tyr His Ser Val His Glu Lys Ile Phe Thr Leu Pro Gly Asp Cys
          195            200            205

Leu Ile Tyr Pro Ala His Asp Tyr His Gly Phe Thr Val Ser Thr Val
          210            215            220

Glu Glu Glu Arg Thr Leu Asn Pro Arg Leu Thr Leu Ser Cys Glu Glu
          225            230            235            240

Phe Val Lys Ile Met Gly Asn Leu Asn Leu Pro Lys Pro Gln Gln Ile
          245            250            255

Asp Phe Ala Val Pro Ala Asn Met Arg Cys Gly Val Gln Thr Pro Thr

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4208

260

265

270

Ala

<210> 4634

<211> 311

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4634

Val	Thr	Ser	Glu	Gly	Val	Arg	Val	Arg	Ser	Ser	Arg	Gly	Arg	Ala	Xaa
1				5					10					15	

Gly	Val	Trp	Arg	Phe	Glu	Arg	Asp	Glu	Asp	Gly	Thr	Gly	Ala	Gly	Cys
			20					25					30		

Gly	Gln	Trp	Thr	Arg	Phe	Cys	Arg	Glu	Pro	Lys	Met	Ala	Val	Asn	Val
		35					40					45			

Tyr	Ser	Thr	Ser	Val	Thr	Ser	Asp	Asn	Leu	Ser	Arg	His	Asp	Met	Leu
	50					55					60				

Ala	Trp	Ile	Asn	Glu	Ser	Leu	Gln	Leu	Asn	Leu	Thr	Lys	Ile	Glu	Gln
65					70					75				80	

Leu	Cys	Ser	Gly	Ala	Ala	Tyr	Cys	Gln	Phe	Met	Asp	Met	Leu	Phe	Pro
				85					90					95	

Gly	Ser	Ile	Ala	Leu	Lys	Lys	Val	Lys	Phe	Gln	Ala	Lys	Leu	Glu	His
			100					105					110		

Glu	Tyr	Ile	Gln	Asn	Phe	Lys	Ile	Leu	Gln	Ala	Gly	Phe	Lys	Arg	Met
		115					120					125			

Gly	Val	Asp	Lys	Ile	Ile	Pro	Val	Asp	Lys	Leu	Val	Lys	Gly	Lys	Phe
		130					135				140				

Gln	Asp	Asn	Phe	Glu	Phe	Val	Gln	Trp	Phe	Lys	Lys	Phe	Phe	Asp	Ala
145					150					155					160

Asn	Tyr	Asp	Gly	Lys	Asp	Tyr	Asp	Pro	Val	Ala	Ala	Arg	Gln	Gly	Gln
				165					170					175	

4209

Glu Thr Ala Val Ala Pro Ser Leu Val Ala Pro Ala Leu Asn Lys Pro
 180 185 190
 Lys Lys Pro Leu Thr Ser Ser Ser Ala Ala Pro Gln Arg Pro Ile Ser
 195 200 205
 Thr Gln Arg Thr Ala Ala Ala Pro Lys Ala Gly Pro Gly Val Val Arg
 210 215 220
 Lys Asn Pro Gly Val Gly Asn Gly Asp Asp Glu Ala Ala Glu Leu Met
 225 230 235 240
 Gln Gln Val Asn Val Leu Lys Leu Thr Val Glu Asp Leu Glu Lys Glu
 245 250 255
 Arg Asp Phe Tyr Phe Gly Lys Leu Arg Asn Ile Glu Leu Ile Cys Gln
 260 265 270
 Glu Asn Glu Gly Glu Asn Asp Pro Val Leu Gln Arg Ile Val Asp Ile
 275 280 285
 Leu Tyr Ala Thr Asp Glu Gly Phe Val Ile Pro Asp Glu Gly Gly Pro
 290 295 300
 Gln Glu Glu Gln Glu Glu Tyr
 305 310

<210> 4635

<211> 367

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4635

Asn Ala Met Arg Xaa Ser Gly Asp Ala Phe Asp Ile Gln Arg Cys Tyr
 1 5 10 15
 Cys Asn Tyr Thr Thr Asp Val Val Ala Ser Val Ala Phe Gly Thr Pro
 20 25 30
 Val Asp Ser Trp Gln Ala Pro Glu Asp Pro Phe Val Lys His Cys Lys
 35 40 45
 Arg Phe Phe Glu Phe Cys Ile Pro Arg Pro Ile Leu Val Leu Leu Leu
 50 55 60

4210

Ser Phe Pro Ser Ile Met Val Pro Leu Ala Arg Ile Leu Pro Asn Lys
 65 70 75 80
 Asn Arg Asp Glu Leu Asn Gly Phe Phe Asn Lys Leu Ile Arg Asn Val
 85 90 95
 Ile Ala Leu Arg Asp Gln Gln Ala Ala Glu Glu Arg Arg Arg Asp Phe
 100 105 110
 Leu Gln Met Val Leu Asp Ala Arg His Ser Ala Ser Pro Met Gly Val
 115 120 125
 Gln Asp Phe Asp Ile Val Arg Asp Val Phe Ser Ser Thr Gly Cys Lys
 130 135 140
 Pro Asn Pro Ser Arg Gln His Gln Pro Ser Pro Met Ala Arg Pro Leu
 145 150 155 160
 Thr Val Asp Glu Ile Val Gly Gln Ala Phe Ile Phe Leu Ile Ala Gly
 165 170 175
 Tyr Glu Ile Ile Thr Asn Thr Leu Ser Phe Ala Thr Tyr Leu Leu Ala
 180 185 190
 Thr Asn Pro Asp Cys Gln Glu Lys Leu Leu Arg Glu Val Asp Val Phe
 195 200 205
 Lys Glu Lys His Met Ala Pro Glu Phe Cys Ser Leu Glu Glu Gly Leu
 210 215 220
 Pro Tyr Leu Asp Met Val Ile Ala Glu Thr Leu Arg Met Tyr Pro Pro
 225 230 235 240
 Ala Phe Arg Phe Thr Arg Glu Ala Ala Gln Asp Cys Glu Val Leu Gly
 245 250 255
 Gln Arg Ile Pro Ala Gly Ala Val Leu Glu Met Ala Val Gly Ala Leu
 260 265 270
 His His Asp Pro Glu His Trp Pro Ser Pro Glu Thr Phe Asn Pro Glu
 275 280 285
 Arg Phe Thr Ala Glu Ala Arg Gln Gln His Arg Pro Phe Thr Tyr Leu
 290 295 300
 Pro Phe Gly Ala Gly Pro Arg Ser Cys Leu Gly Val Arg Leu Gly Leu
 305 310 315 320
 Leu Glu Val Lys Leu Thr Leu Leu His Val Leu His Lys Phe Arg Phe
 325 330 335

4211

Gln Ala Cys Pro Glu Thr Gln Val Pro Leu Gln Leu Glu Ser Lys Ser
 340 345 350

Ala Leu Gly Pro Lys Asn Gly Val Tyr Ile Lys Ile Val Ser Arg
 355 360 365

<210> 4636

<211> 198

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4636

Val Val Cys Gln Ser Arg Arg Arg Arg Arg Arg Xaa Arg Arg Arg Arg
 1 5 10 15

Ser Thr Val Ile Arg Pro Pro Arg Arg Gly Val Gly Gly Leu Arg Gly
 20 25 30

Thr Phe Phe Phe Phe Arg Leu Thr Ala Gly Gln Leu Arg Ser Met Ser
 35 40 45

Thr Pro Ala Arg Arg Arg Leu Met Arg Asp Phe Lys Arg Leu Gln Glu
 50 55 60

Asp Pro Pro Val Gly Val Ser Gly Ala Pro Ser Glu Asn Asn Ile Met
 65 70 75 80

Gln Trp Asn Ala Val Ile Phe Gly Pro Glu Gly Thr Pro Phe Glu Asp
 85 90 95

Gly Thr Phe Lys Leu Val Ile Glu Phe Ser Glu Glu Tyr Pro Asn Lys
 100 105 110

Pro Pro Thr Val Arg Phe Leu Ser Lys Met Phe His Pro Asn Val Tyr
 115 120 125

Ala Asp Gly Ser Ile Cys Leu Asp Ile Leu Gln Asn Arg Trp Ser Pro
 130 135 140

Thr Tyr Asp Val Ser Ser Ile Leu Thr Ser Ile Gln Ser Leu Leu Asp
 145 150 155 160

Glu Pro Asn Pro Asn Ser Pro Ala Asn Ser Gln Ala Ala Gln Leu Tyr

4212

	165		170		175
Gln Glu Asn Lys Arg Glu Tyr Glu Lys Arg Val Ser Ala Ile Val Glu					
	180		185		190
Gln Ser Trp Asn Asp Ser					
	195				

<210> 4637

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4637

Leu Phe Phe Met Val Ser Asn Met Tyr Asp Gln Cys Ser His Cys Phe
1 5 10 15

Lys Met Tyr Arg Val Asn Ile Asn Thr Ser Tyr Ala Xaa Lys Lys Lys
20 25 30

Lys Lys Gly Gly Arg Ser Xaa Gly Ser Lys Leu Thr Tyr Ala Cys Met
35 40 45

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
50 55 60

Val Val Leu Gln Arg
65

<210> 4638

<211> 77

<212> PRT

<213> Homo sapiens

<400> 4638

Leu Tyr Cys Phe Ser Ser Val Leu Glu Lys Lys Ile Asn Pro Ala Ile
1 5 10 15

4213

Thr Phe Trp Asn Cys Leu Asp Phe Ser Ala Val Gln Ala Ile Ser Asn
 20 25 30

Ile Val Leu Cys Arg Glu Cys His Cys Ser Phe Glu Cys Ile His Val
 35 40 45

Trp Val Leu Ile Ile Val Tyr Phe Leu Trp Gly Trp Lys Arg Lys Thr
 50 55 60

Ile Gln Ala Glu Lys Ser Ile Leu Lys Asp Ala Phe Leu
 65 70 75

<210> 4639

<211> 617

<212> PRT

<213> Homo sapiens

<400> 4639

Gly Thr Arg Glu Cys Pro Leu Cys Leu Val Arg Leu Pro Pro Glu Arg
 1 5 10 15

Ala Pro Arg Leu Leu Ser Cys Pro His Arg Ser Cys Arg Asp Cys Leu
 20 25 30

Arg His Tyr Leu Arg Leu Glu Ile Ser Glu Ser Arg Val Pro Ile Ser
 35 40 45

Cys Pro Glu Cys Ser Glu Arg Leu Asn Pro His Asp Ile Arg Leu Leu
 50 55 60

Leu Ala Asp Pro Pro Leu Met His Lys Tyr Glu Glu Phe Met Leu Arg
 65 70 75 80

Arg Tyr Leu Ala Ser Asp Pro Asp Cys Arg Trp Cys Pro Ala Pro Asp
 85 90 95

Cys Gly Tyr Ala Val Ile Ala Tyr Gly Cys Ala Ser Cys Pro Lys Leu
 100 105 110

Thr Cys Glu Arg Glu Gly Cys Gln Thr Glu Phe Cys Tyr His Cys Lys
 115 120 125

Gln Ile Trp His Pro Asn Gln Thr Cys Asp Met Ala Arg Gln Gln Arg
 130 135 140

Ala Gln Thr Leu Arg Val Arg Thr Lys His Thr Ser Gly Leu Ser Tyr
 145 150 155 160

4214

Gly Gln Glu Ser Gly Pro Asp Asp Ile Lys Pro Cys Pro Arg Cys Ser
 165 170 175
 Ala Tyr Ile Ile Lys Met Asn Asp Gly Ser Cys Asn His Met Thr Cys
 180 185 190
 Ala Val Cys Gly Cys Glu Phe Cys Trp Leu Cys Met Lys Glu Ile Ser
 195 200 205
 Asp Leu His Tyr Leu Ser Pro Ser Gly Cys Thr Phe Trp Gly Lys Lys
 210 215 220
 Pro Trp Ser Arg Lys Lys Lys Ile Leu Trp Gln Leu Gly Thr Leu Ile
 225 230 235 240
 Gly Ala Pro Val Gly Ile Ser Leu Ile Ala Gly Ile Ala Ile Pro Ala
 245 250 255
 Met Val Ile Gly Ile Pro Val Tyr Val Gly Arg Lys Ile His Ser Arg
 260 265 270
 Tyr Glu Gly Arg Lys Thr Ser Lys His Lys Arg Asn Leu Ala Ile Thr
 275 280 285
 Gly Gly Val Thr Leu Ser Val Ile Ala Ser Pro Val Ile Ala Ala Val
 290 295 300
 Ser Val Gly Ile Gly Val Pro Ile Met Leu Ala Tyr Val Tyr Gly Val
 305 310 315 320
 Val Pro Ile Ser Leu Cys Arg Gly Gly Gly Cys Gly Val Ser Thr Ala
 325 330 335
 Asn Gly Lys Gly Val Lys Ile Glu Phe Asp Glu Asp Asp Gly Pro Ile
 340 345 350
 Thr Val Ala Asp Ala Trp Arg Ala Leu Lys Asn Pro Ser Ile Gly Glu
 355 360 365
 Ser Ser Ile Glu Gly Leu Thr Ser Val Leu Ser Thr Ser Gly Ser Pro
 370 375 380
 Thr Asp Gly Leu Ser Val Met Gln Gly Pro Tyr Ser Glu Thr Ala Ser
 385 390 395 400
 Phe Ala Ala Leu Ser Gly Gly Thr Leu Ser Gly Gly Ile Leu Ser Ser
 405 410 415
 Gly Lys Gly Lys Tyr Ser Arg Leu Glu Val Gln Ala Asp Val Gln Lys
 420 425 430

4215

Glu Ile Phe Pro Lys Asp Thr Ala Ser Leu Gly Ala Ile Ser Asp Asn
 435 440 445

 Ala Ser Thr Arg Ala Met Ala Gly Ser Ile Ile Ser Ser Tyr Asn Pro
 450 455 460

 Gln Asp Arg Glu Cys Asn Asn Met Glu Ile Gln Val Asp Ile Glu Ala
 465 470 475 480

 Lys Pro Ser His Tyr Gln Leu Val Ser Gly Ser Ser Thr Glu Asp Ser
 485 490 495

 Leu His Val His Ala Gln Met Ala Glu Asn Glu Glu Glu Gly Ser Gly
 500 505 510

 Gly Gly Gly Ser Glu Glu Asp Pro Pro Cys Arg His Gln Ser Cys Glu
 515 520 525

 Gln Lys Asp Cys Leu Ala Ser Lys Pro Trp Asp Ile Ser Leu Ala Gln
 530 535 540

 Pro Glu Ser Ile Arg Ser Asp Leu Glu Ser Ser Asp Ala Gln Ser Asp
 545 550 555 560

 Asp Val Pro Asp Ile Thr Ser Asp Glu Cys Gly Ser Pro Arg Ser His
 565 570 575

 Thr Ala Ala Cys Pro Ser Thr Pro Arg Ala Gln Gly Ala Pro Ser Pro
 580 585 590

 Ser Ala His Met Asn Leu Ser Ala Leu Ala Glu Gly Gln Thr Val Leu
 595 600 605

 Lys Pro Glu Gly Gly Glu Ala Arg Val
 610 615

<210> 4640

<211> 155

<212> PRT

<213> Homo sapiens

<400> 4640

Arg Trp Arg Gly Ser Met Ser Gly Ser Met Ala Thr Ala Glu Ala Ser
 1 5 10 15

Gly Ser Asp Gly Lys Gly Gln Glu Val Glu Thr Ser Val Thr Tyr Tyr
 20 25 30

Arg Leu Glu Glu Val Ala Lys Arg Asn Ser Leu Lys Glu Leu Trp Leu

4216

35 40 45
 Val Ile His Gly Arg Val Tyr Asp Val Thr Arg Phe Leu Asn Glu His
 50 55 60
 Pro Gly Gly Glu Glu Val Leu Leu Glu Gln Ala Gly Val Asp Ala Ser
 65 70 75 80
 Glu Ser Phe Glu Asp Val Gly His Ser Ser Asp Ala Arg Glu Met Leu
 85 90 95
 Lys Gln Tyr Tyr Ile Gly Asp Ile His Pro Ser Asp Leu Lys Pro Glu
 100 105 110
 Ser Gly Ser Lys Asp Pro Ser Lys Asn Asp Thr Cys Lys Ser Cys Trp
 115 120 125
 Ala Tyr Trp Ile Leu Pro Ile Ile Gly Ala Val Leu Leu Gly Phe Leu
 130 135 140
 Tyr Arg Tyr Tyr Thr Ser Glu Ser Lys Ser Ser
 145 150 155

<210> 4641

<211> 46

<212> PRT

<213> Homo sapiens

<400> 4641

Ser Gln Thr Pro His Tyr Ser Ser Leu Glu Leu Leu Ile Lys Glu Asn
 1 5 10 15
 Trp Lys Tyr Ile Cys Pro Cys Leu Asn Phe Ile Ala Leu Ile Cys Val
 20 25 30
 Ile Ser Leu Leu Thr Gly Arg Gly Thr Ser Phe Phe Pro Tyr
 35 40 45

<210> 4642

<211> 348

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

4217

<220>

<221> SITE

<222> (335)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4642

Val Glu Trp Asn Arg Leu Phe Ala Gly Leu Leu Glu Glu Gln Arg Gln
 1 5 10 15

Arg Ser Glu Asp Ser Met Tyr Thr Ala Ile Pro Gln Ser Gly Ser Pro
 20 25 30

Phe Pro Gly Ser Val Gln Asp Pro Gly Leu His Val Trp Arg Val Glu
 35 40 45

Lys Leu Lys Pro Val Pro Val Ala Gln Glu Asn Gln Gly Val Phe Phe
 50 55 60

Ser Gly Asp Ser Tyr Leu Val Leu His Asn Gly Pro Glu Glu Val Ser
 65 70 75 80

His Leu His Leu Asn Thr Leu Leu Gly Glu Arg Pro Val Gln His Arg
 85 90 95

Glu Val Xaa Gly Asn Glu Ser Asp Leu Phe Met Ser Tyr Phe Pro Arg
 100 105 110

Gly Leu Lys Tyr Gln Glu Gly Gly Val Glu Ser Ala Phe His Lys Thr
 115 120 125

Ser Thr Gly Ala Pro Ala Ala Ile Lys Lys Leu Tyr Gln Val Lys Gly
 130 135 140

Lys Lys Asn Ile Arg Ala Thr Glu Arg Ala Leu Asn Trp Asp Ser Phe
 145 150 155 160

Asn Thr Gly Asp Cys Phe Ile Leu Asp Leu Gly Gln Asn Ile Phe Ala
 165 170 175

Trp Cys Gly Gly Lys Ser Asn Ile Leu Glu Arg Asn Lys Ala Arg Asp
 180 185 190

Leu Ala Leu Ala Ile Arg Asp Ser Glu Arg Gln Gly Lys Ala Gln Val
 195 200 205

Glu Ile Val Thr Asp Gly Glu Glu Pro Ala Glu Met Ile Gln Val Leu
 210 215 220

Gly Pro Lys Pro Ala Leu Lys Glu Gly Asn Pro Glu Glu Asp Leu Thr
 225 230 235 240

4218

Ala Asp Lys Ala Asn Ala Gln Ala Ala Ala Leu Tyr Lys Val Ser Asp
 245 250 255

Ala Thr Gly Gln Met Asn Leu Thr Lys Val Ala Asp Ser Ser Pro Phe
 260 265 270

Ala Leu Glu Leu Leu Ile Ser Asp Asp Cys Phe Val Leu Asp Asn Gly
 275 280 285

Leu Cys Gly Lys Ile Tyr Ile Trp Lys Gly Arg Lys Ala Asn Glu Lys
 290 295 300

Glu Arg Gln Ala Ala Leu Gln Val Ala Glu Gly Phe Ile Ser Arg Met
 305 310 315 320

Gln Tyr Ala Pro Asn Thr Gln Val Glu Ile Leu Pro Gln Gly Xaa Glu
 325 330 335

Ser Pro Ile Phe Lys Gln Phe Phe Lys Asp Trp Lys
 340 345

<210> 4643

<211> 389

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (376)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4643

Phe Gln Gly Lys Ile Asp Ala Ala Tyr Phe Glu Thr Ser Lys Tyr Leu
 1 5 10 15

Leu Asp Val Leu Asn Lys Lys Tyr Ser Leu Leu Asp His Met Gln Ala
 20 25 30

Met Arg Arg Tyr Leu Leu Leu Gly Gln Gly Asp Phe Ile Arg His Leu
 35 40 45

Met Asp Leu Leu Lys Pro Glu Leu Val Arg Pro Ala Thr Thr Leu Tyr
 50 55 60

Gln His Asn Leu Thr Gly Ile Leu Glu Thr Ala Val Arg Ala Thr Asn
 65 70 75 80

Ala Gln Phe Asp Ser Pro Glu Ile Leu Arg Arg Leu Asp Val Arg Leu

4219

				85					90						95		
Leu	Glu	Val	Ser	Pro	Gly	Asp	Thr	Gly	Trp	Asp	Val	Phe	Ser	Leu	Asp		
			100					105					110				
Tyr	His	Val	Asp	Gly	Pro	Ile	Ala	Thr	Val	Phe	Thr	Arg	Glu	Cys	Met		
		115					120					125					
Ser	His	Tyr	Leu	Arg	Val	Phe	Asn	Phe	Leu	Trp	Arg	Ala	Lys	Arg	Met		
	130					135					140						
Glu	Tyr	Ile	Leu	Thr	Asp	Ile	Arg	Lys	Gly	His	Met	Cys	Asn	Ala	Lys		
145					150					155						160	
Leu	Leu	Arg	Asn	Met	Pro	Glu	Phe	Ser	Gly	Val	Leu	His	Gln	Cys	His		
				165					170					175			
Ile	Leu	Ala	Ser	Glu	Met	Val	His	Phe	Ile	His	Gln	Met	Gln	Tyr	Tyr		
			180					185					190				
Ile	Thr	Phe	Glu	Val	Leu	Glu	Cys	Ser	Trp	Asp	Glu	Leu	Trp	Asn	Lys		
		195					200					205					
Val	Gln	Gln	Ala	Gln	Asp	Leu	Asp	His	Ile	Ile	Ala	Ala	His	Glu	Val		
	210					215					220						
Phe	Leu	Asp	Thr	Ile	Ile	Ser	Arg	Cys	Leu	Leu	Asp	Ser	Asp	Ser	Arg		
225					230					235					240		
Ala	Leu	Leu	Asn	Gln	Leu	Arg	Ala	Val	Phe	Asp	Gln	Ile	Ile	Glu	Leu		
				245					250					255			
Gln	Asn	Ala	Gln	Asp	Ala	Ile	Tyr	Arg	Ala	Ala	Leu	Glu	Glu	Leu	Gln		
		260						265					270				
Arg	Arg	Leu	Gln	Phe	Glu	Glu	Lys	Lys	Lys	Gln	Arg	Glu	Ile	Glu	Gly		
		275					280					285					
Gln	Trp	Gly	Val	Thr	Ala	Ala	Glu	Glu	Glu	Glu	Glu	Asn	Lys	Arg	Ile		
	290					295					300						
Gly	Glu	Phe	Lys	Glu	Ser	Ile	Pro	Lys	Met	Cys	Ser	Gln	Leu	Arg	Ile		
305					310					315					320		
Leu	Thr	His	Phe	Tyr	Gln	Gly	Ile	Val	Gln	Gln	Phe	Leu	Val	Leu	Leu		
				325					330					335			
Thr	Thr	Ser	Ser	Asp	Glu	Ser	Leu	Arg	Phe	Leu	Ser	Phe	Arg	Leu	Asp		
			340					345					350				
Phe	Asn	Glu	His	Tyr	Lys	Ala	Arg	Glu	Pro	Arg	Leu	Arg	Cys	Val	Ser		

4220

355 360 365
 Gly Tyr Gln Gly Ala Ala Gln Xaa Pro His Val Lys Leu Ala Val Leu
 370 375 380

 Pro Gly Ser Cys Gly
 385

 <210> 4644
 <211> 40
 <212> PRT
 <213> Homo sapiens

 <400> 4644
 Phe Cys Pro Ser Arg Leu Cys Phe Leu Pro Phe Leu Cys Ser Arg Ala
 1 5 10 15

 Ala Ile Ser Arg Asp Pro Phe Tyr Glu Met Leu Ala Ala Arg Lys Lys
 20 25 30

 Lys Val Ser Ser Thr Lys Arg His
 35 40

 <210> 4645
 <211> 353
 <212> PRT
 <213> Homo sapiens

 <400> 4645
 Arg Lys Gln Cys Gln Asp Ser Lys Asp Ser Asn His Leu Pro Lys Met
 1 5 10 15

 Ser Leu Ser Ala Phe Thr Leu Phe Leu Ala Leu Ile Gly Gly Thr Ser
 20 25 30

 Gly Gln Tyr Tyr Asp Tyr Asp Phe Pro Leu Ser Ile Tyr Gly Gln Ser
 35 40 45

 Ser Pro Asn Cys Ala Pro Glu Cys Asn Cys Pro Glu Ser Tyr Pro Ser
 50 55 60

 Ala Met Tyr Cys Asp Glu Leu Lys Leu Lys Ser Val Pro Met Val Pro
 65 70 75 80

 Pro Gly Ile Lys Tyr Leu Tyr Leu Arg Asn Asn Gln Ile Asp His Ile
 85 90 95

4221

Asp Glu Lys Ala Phe Glu Asn Val Thr Asp Leu Gln Trp Leu Ile Leu
 100 105 110
 Asp His Asn Leu Leu Glu Asn Ser Lys Ile Lys Gly Arg Val Phe Ser
 115 120 125
 Lys Leu Lys Gln Leu Lys Lys Leu His Ile Asn His Asn Asn Leu Thr
 130 135 140
 Glu Ser Val Gly Pro Leu Pro Lys Ser Leu Glu Asp Leu Gln Leu Thr
 145 150 155 160
 His Asn Lys Ile Thr Lys Leu Gly Ser Phe Glu Gly Leu Val Asn Leu
 165 170 175
 Thr Phe Ile His Leu Gln His Asn Arg Leu Lys Glu Asp Ala Val Ser
 180 185 190
 Ala Ala Phe Lys Gly Leu Lys Ser Leu Glu Tyr Leu Asp Leu Ser Phe
 195 200 205
 Asn Gln Ile Ala Arg Leu Pro Ser Gly Leu Pro Val Ser Leu Leu Thr
 210 215 220
 Leu Tyr Leu Asp Asn Asn Lys Ile Ser Asn Ile Pro Asp Glu Tyr Phe
 225 230 235 240
 Lys Arg Phe Asn Ala Leu Gln Tyr Leu Arg Leu Ser His Asn Glu Leu
 245 250 255
 Ala Asp Ser Gly Ile Pro Gly Asn Ser Phe Asn Val Ser Ser Leu Val
 260 265 270
 Glu Leu Asp Leu Ser Tyr Asn Lys Leu Lys Asn Ile Pro Thr Val Asn
 275 280 285
 Glu Asn Leu Glu Asn Tyr Tyr Leu Glu Val Asn Gln Leu Glu Lys Phe
 290 295 300
 Asp Ile Lys Ser Phe Cys Lys Ile Leu Gly Pro Leu Ser Tyr Ser Lys
 305 310 315 320
 Ile Lys His Leu Arg Leu Asp Gly Asn Arg Ile Ser Glu Thr Ser Leu
 325 330 335
 Pro Pro Asp Met Tyr Glu Cys Leu Arg Val Ala Asn Glu Val Thr Leu
 340 345 350

Asn

4222

<210> 4646

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4646

Glu Glu Gln Lys Gly Glu Ile Asn Gly Lys Thr Lys Asn Thr Gln Ile
1 5 10 15

Cys Gly Phe Gly Xaa Asn Glu Thr Arg Phe Ile Tyr Leu Lys Lys Cys
20 25 30

Trp Cys Ser Asn Thr Lys His Tyr Phe His Xaa Glu Lys Ile Thr Tyr
35 40 45

Leu Leu Pro Ser Val Leu
50

<210> 4647

<211> 38

<212> PRT

<213> Homo sapiens

<400> 4647

Asn Met Tyr Ser Gly Arg Leu Gln Trp Leu Thr Pro Val Ile Pro Ala
1 5 10 15

Leu Trp Gln Ala Glu Met Gly Gly Ser Phe Glu Val Arg Ser Leu Arg
20 25 30

Pro Ala Trp Pro Thr Trp
35

<210> 4648

<211> 515

4223

<212> PRT

<213> Homo sapiens

<400> 4648

Gly Glu Trp Pro Lys Ser Leu Arg Ile Pro Glu Gly Pro Ile Asp Gln
 1 5 10 15
 Gly Pro Ala Ile Gly Arg Val Arg Val Leu Glu Glu Gln Leu Val Lys
 20 25 30
 Ala Lys Glu Gln Ile Glu Asn Tyr Lys Lys Gln Thr Arg Asn Gly Leu
 35 40 45
 Gly Lys Asp His Glu Ile Leu Arg Arg Arg Ile Glu Asn Gly Ala Lys
 50 55 60
 Glu Leu Trp Phe Phe Leu Gln Ser Glu Leu Lys Lys Leu Lys Asn Leu
 65 70 75 80
 Glu Gly Asn Glu Leu Gln Arg His Ala Asp Glu Phe Leu Leu Asp Leu
 85 90 95
 Gly His His Glu Arg Ser Ile Met Thr Asp Leu Tyr Tyr Leu Ser Gln
 100 105 110
 Thr Asp Gly Ala Gly Asp Trp Arg Glu Lys Glu Ala Lys Asp Leu Thr
 115 120 125
 Glu Leu Val Gln Arg Arg Ile Thr Tyr Leu Gln Asn Pro Lys Asp Cys
 130 135 140
 Ser Lys Ala Lys Lys Leu Val Cys Asn Ile Asn Lys Gly Cys Gly Tyr
 145 150 155 160
 Gly Cys Gln Leu His His Val Val Tyr Cys Phe Met Ile Ala Tyr Gly
 165 170 175
 Thr Gln Arg Thr Leu Ile Leu Glu Ser Gln Asn Trp Arg Tyr Ala Thr
 180 185 190
 Gly Gly Trp Glu Thr Val Phe Arg Pro Val Ser Glu Thr Cys Thr Asp
 195 200 205
 Arg Ser Gly Ile Ser Thr Gly His Trp Ser Gly Glu Val Lys Asp Lys
 210 215 220
 Asn Val Gln Val Val Glu Leu Pro Ile Val Asp Ser Leu His Pro Arg
 225 230 235 240
 Pro Pro Tyr Leu Pro Leu Ala Val Pro Glu Asp Leu Ala Asp Arg Leu
 245 250 255

4224

Val Arg Val His Gly Asp Pro Ala Val Trp Trp Val Ser Gln Phe Val
 260 265 270
 Lys Tyr Leu Ile Arg Pro Gln Pro Trp Leu Glu Lys Glu Ile Glu Glu
 275 280 285
 Ala Thr Lys Lys Leu Gly Phe Lys His Pro Val Ile Gly Val His Val
 290 295 300
 Arg Arg Thr Asp Lys Val Gly Thr Glu Ala Ala Phe His Pro Ile Glu
 305 310 315 320
 Glu Tyr Met Val His Val Glu Glu His Phe Gln Leu Leu Ala Arg Arg
 325 330 335
 Met Gln Val Asp Lys Lys Arg Val Tyr Leu Ala Thr Asp Asp Pro Ser
 340 345 350
 Leu Leu Lys Glu Ala Lys Thr Lys Tyr Pro Asn Tyr Glu Phe Ile Ser
 355 360 365
 Asp Asn Ser Ile Ser Trp Ser Ala Gly Leu His Asn Arg Tyr Thr Glu
 370 375 380
 Asn Ser Leu Arg Gly Val Ile Leu Asp Ile His Phe Leu Ser Gln Ala
 385 390 395 400
 Asp Phe Leu Val Cys Thr Phe Ser Ser Gln Val Cys Arg Val Ala Tyr
 405 410 415
 Glu Ile Met Gln Thr Leu His Pro Asp Ala Ser Ala Asn Phe His Ser
 420 425 430
 Leu Asp Asp Ile Tyr Tyr Phe Gly Gly Gln Asn Ala His Asn Gln Ile
 435 440 445
 Ala Ile Tyr Ala His Gln Pro Arg Thr Ala Asp Glu Ile Pro Met Glu
 450 455 460
 Pro Gly Asp Ile Ile Gly Val Ala Gly Asn His Trp Asp Gly Tyr Ser
 465 470 475 480
 Lys Gly Val Asn Arg Lys Leu Gly Arg Thr Gly Leu Tyr Pro Ser Tyr
 485 490 495
 Lys Val Arg Glu Lys Ile Glu Thr Val Lys Tyr Pro Thr Tyr Pro Glu
 500 505 510
 Ala Glu Lys
 515

4225

<210> 4649

<211> 47

<212> PRT

<213> Homo sapiens

<400> 4649

Ala Ala Gly Val Pro Val Phe Asp Phe Ser Val Asn Met Leu Phe Val
 1 5 10 15

His Ile Ser Thr Trp Trp Arg Pro Tyr Ser Leu Phe His Leu Pro Asn
 20 25 30

Asn Gly Lys Asn Ile Lys Val Asn Gln Cys Ala Leu Gly Ile Gln
 35 40 45

<210> 4650

<211> 38

<212> PRT

<213> Homo sapiens

<400> 4650

Cys Ile Val Ile Ile Tyr Asp Arg Ser Ser His Phe Phe Leu Leu Lys
 1 5 10 15

Lys Ile Thr Leu Ser Pro Val Gly Asn Gly Ile Leu Trp Ala Phe Lys
 20 25 30

Arg Lys Phe Tyr Glu Thr
 35

<210> 4651

<211> 171

<212> PRT

<213> Homo sapiens

<400> 4651

Gly Thr Ser Tyr Gly Leu Pro Arg Tyr Arg Trp Leu Thr His Ala Trp
 1 5 10 15

Asn Phe Phe Gln Arg Glu Phe Lys Cys Cys Gly Val Val Tyr Phe Thr
 20 25 30

Asp Trp Leu Glu Met Thr Glu Met Asp Trp Pro Pro Asp Ser Cys Cys
 35 40 45

4226

Val Arg Glu Phe Pro Gly Cys Ser Lys Gln Ala His Gln Glu Asp Leu
 50 55 60
 Ser Asp Leu Tyr Gln Glu Gly Cys Gly Lys Lys Met Tyr Ser Phe Leu
 65 70 75 80
 Arg Gly Thr Lys Gln Leu Gln Val Leu Arg Phe Leu Gly Ile Ser Ile
 85 90 95
 Gly Val Thr Gln Ile Leu Ala Met Ile Leu Thr Ile Thr Leu Leu Trp
 100 105 110
 Ala Leu Tyr Tyr Asp Arg Arg Glu Pro Gly Thr Asp Gln Met Met Ser
 115 120 125
 Leu Lys Asn Asp Asn Ser Gln His Leu Ser Cys Pro Ser Val Glu Leu
 130 135 140
 Leu Lys Pro Ser Leu Ser Arg Ile Phe Glu His Thr Ser Met Ala Asn
 145 150 155 160
 Ser Phe Asn Thr His Phe Glu Met Glu Glu Leu
 165 170

<210> 4652

<211> 200

<212> PRT

<213> Homo sapiens

<400> 4652

Ser Leu Gly Glu Leu Pro Thr Asp Pro Ser Ser Asp Glu Pro Val Phe
 1 5 10 15
 His Ile Ser His Ile Asp Arg Val Tyr Thr Leu Arg Thr Asp Asn Ile
 20 25 30
 Asn Glu Arg Thr Thr Trp Val Gln Lys Ile Lys Ala Ala Ser Glu Gln
 35 40 45
 Tyr Ile Asp Thr Glu Lys Lys Lys Arg Glu Lys Ala Tyr Gln Ala Arg
 50 55 60
 Ser Gln Lys Thr Ser Gly Ile Gly Arg Leu Met Val His Val Ile Glu
 65 70 75 80
 Ala Thr Glu Leu Lys Ala Cys Lys Pro Asn Gly Lys Ser Asn Pro Tyr
 85 90 95

4227

Cys Glu Ile Ser Met Gly Ser Gln Ser Tyr Thr Thr Arg Thr Ile Gln
 100 105 110

Asp Thr Leu Asn Pro Lys Trp Asn Phe Asn Cys Gln Phe Phe Ile Lys
 115 120 125

Asp Leu Tyr Gln Asp Val Leu Cys Leu Thr Leu Phe Asp Arg Asp Gln
 130 135 140

Phe Ser Pro Asp Asp Phe Leu Gly Arg Thr Glu Ile Pro Val Ala Lys
 145 150 155 160

Ile Arg Thr Glu Gln Glu Ser Lys Gly Pro Met Thr Arg Arg Leu Leu
 165 170 175

Leu His Glu Val Pro Thr Gly Glu Val Trp Val Arg Phe Asp Leu Gln
 180 185 190

Leu Phe Glu Gln Lys Thr Leu Leu
 195 200

<210> 4653

<211> 91

<212> PRT

<213> Homo sapiens

<400> 4653

Val Ser Pro Gly Gly Gln Gln Gly Leu His Phe Ser Glu Gly Leu Glu
 1 5 10 15

Gly Leu Val Glu Leu Leu Gly Gln Arg Ser Arg Ser Arg Glu Asn Ile
 20 25 30

Arg Pro Ser Asp Leu Ser Ser Ala Leu Arg Ala Leu Pro Glu Ser Ser
 35 40 45

Ser Arg Gly Leu Gln Ser Leu Arg Lys Pro Ser Gln Arg Ala Ala Pro
 50 55 60

Thr Ser Gln Ala Val Cys Thr Ser Pro Cys Tyr Ala Leu Leu Cys Asn
 65 70 75 80

Ile Leu Gln Gln Ser Ala Val His Gly Val Cys
 85 90

<210> 4654

<211> 44

4228

<212> PRT

<213> Homo sapiens

<400> 4654

Ser Gln His Phe Ala Arg Pro Arg Arg Val Asp His Leu Arg Ser Gly
 1 5 10 15

Val Arg Asp Gln Pro Asp Gln His Gly Glu Thr Pro Ser Leu Leu Lys
 20 25 30

Ile Gln Lys Leu Ala Trp His Gly Gly Ala Cys Leu
 35 40

<210> 4655

<211> 76

<212> PRT

<213> Homo sapiens

<400> 4655

Thr Leu Arg Val Arg Thr Gly Ser Tyr Ser Ser Leu Cys Ala Phe Leu
 1 5 10 15

Met Leu Gln Arg Ile Tyr His Leu Met Glu Glu Asn Ile Cys Lys Leu
 20 25 30

Ala Pro Tyr Gln Ala Pro Ser Thr Tyr Ser Thr His Leu Asn Phe Glu
 35 40 45

Cys Arg Ile Phe Lys Leu Gln Pro His Ile Leu Arg Ser Arg Lys Asn
 50 55 60

Leu Met Gly Ile Asn Leu His Pro Leu Ala Leu Pro
 65 70 75

<210> 4656

<211> 284

<212> PRT

<213> Homo sapiens

<400> 4656

Ala His Ala Ser Thr His Ala Ser Gly Ser Val Ser Pro Cys Arg Gln
 1 5 10 15

Leu His Phe Pro Leu Phe Leu Phe Pro Phe Pro Ser Arg Pro Arg Ala
 20 25 30

Pro Pro Ser Leu Val Gly Trp Ser Arg Ser Pro Cys Ala Phe Ser Leu

4229

35	40	45
Leu Gly Ser Cys Val Arg Ala Cys Pro Ala Met Asn Glu Glu Tyr Asp		
50	55	60
Val Ile Val Leu Gly Thr Gly Leu Thr Glu Cys Ile Leu Ser Gly Ile		
65	70	75
Met Ser Val Asn Gly Lys Lys Val Leu His Met Asp Arg Asn Pro Tyr		
85	90	95
Tyr Gly Gly Glu Ser Ala Ser Ile Thr Pro Leu Glu Asp Leu Tyr Lys		
100	105	110
Arg Phe Lys Ile Pro Gly Ser Pro Pro Glu Ser Met Gly Arg Gly Arg		
115	120	125
Asp Trp Asn Val Asp Leu Ile Pro Lys Phe Leu Met Ala Asn Gly Gln		
130	135	140
Leu Val Lys Met Leu Leu Tyr Thr Glu Val Thr Arg Tyr Leu Asp Phe		
145	150	155
Lys Val Thr Glu Gly Ser Phe Val Tyr Lys Gly Gly Lys Ile Tyr Lys		
165	170	175
Val Pro Ser Thr Glu Ala Glu Ala Leu Ala Ser Ser Leu Met Gly Leu		
180	185	190
Phe Glu Lys Arg Arg Phe Arg Lys Phe Leu Val Tyr Val Ala Asn Phe		
195	200	205
Asp Glu Lys Asp Pro Arg Thr Phe Glu Gly Ile Asp Pro Lys Lys Thr		
210	215	220
Thr Met Arg Asp Val Tyr Lys Lys Phe Asp Leu Gly Gln Asp Val Ile		
225	230	235
Asp Phe Thr Gly His Ala Leu Ala Leu Tyr Arg Thr Asp Asp Tyr Leu		
245	250	255
Asp Gln Pro Cys Tyr Glu Thr Ile Asn Arg Ile Lys Leu Tyr Tyr Cys		
260	265	270
Gly Lys Thr Thr Val Leu Ile Lys Asp Leu His Ser		
275	280	

<210> 4657

<211> 125

4230

<212> PRT

<213> Homo sapiens

<400> 4657

Asp Gly Val Leu Leu Leu Pro Arg Leu Glu Trp Ser Ala Trp Cys Asp

1

5

10

15

Leu Gly Ser Leu Gln Thr Pro Pro Pro Gly Phe Lys Arg Phe Ser Trp

20

25

30

Pro Ser Leu Leu Ser Ser Trp Asp Tyr Arg Cys Val Pro Pro Cys Pro

35

40

45

Ala Asn Phe Cys Val Phe Ser Arg Asp Gly Val Ser Pro Cys Trp Pro

50

55

60

Ala Gly Leu Glu Leu Leu Thr Ser Gly Tyr Met Pro Thr Ser Thr Ser

65

70

75

80

Gln Ser Ala Gly Ile Thr Gly Met Ser His Cys Ala Gln Pro Gly Ile

85

90

95

Asp Asn Leu Tyr Ser Asp Asn Leu Leu Trp Leu Phe Asn Ile Pro Gln

100

105

110

Gly Ala Leu Lys Ser Lys His Ser Arg Val Cys Ser Phe

115

120

125

<210> 4658

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4658

Trp Arg Gly Val Gly Xaa Ala Arg Lys Lys Glu Asn Ser Pro Leu Gly

1

5

10

15

Lys Lys Glu Glu Glu His Trp Ile Leu Thr Phe Trp Ile Leu Thr Leu

20

25

30

Gly Cys Lys Thr Tyr Leu Pro Leu Ser Arg Leu Pro Ser Pro Ser Thr

35

40

45

Leu Asn Val Leu Leu Ser Phe Ser Val Ser Ala Pro Ser Ser Pro Phe

4232

<210> 4661
 <211> 111
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (59)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4661
 Arg Arg Glu Gly Cys Arg Arg Pro Arg Gly Ser Arg Ala Gly Gly Ala
 1 5 10 15
 Ala Ala Ala Ala Met Gln Glu Ile Ile Ala Ser Val Asp His Ile Lys
 20 25 30
 Phe Asp Leu Glu Ile Ala Val Glu Gln Gln Leu Gly Ala Gln Pro Leu
 35 40 45
 Pro Xaa Gln Thr Gln Pro Pro Ala Lys Xaa Xaa Thr Pro Gln Val Ile
 50 55 60
 Gly Val Met Gln Ser Gln Asn Ser Ser Ala Gly Asn Arg Gly Pro Arg
 65 70 75 80
 Pro Leu Glu Gln Val Thr Cys Tyr Lys Cys Gly Glu Lys Gly His Tyr
 85 90 95
 Ala Asn Arg Cys Thr Lys Gly His Leu Ala Phe Leu Ser Gly Gln
 100 105 110

<210> 4662
 <211> 69
 <212> PRT
 <213> Homo sapiens

4233

<400> 4662

Ser His Phe Val Cys Cys Val Lys Gln Lys Ala Leu Met Lys Lys Gln
 1 5 10 15

Lys Val Met Tyr Val Tyr Glu Lys Ile Asn Cys Thr Ile Ser Phe Gln
 20 25 30

Tyr Val Leu Leu Tyr Ile Leu Val Leu Phe Thr Phe Ser Ser Leu Leu
 35 40 45

Arg Gly Cys Glu Leu Tyr Ser Phe Gln Leu Val Thr His Ile Arg Glu
 50 55 60

Glu Ile Arg Glu Tyr
 65

<210> 4663

<211> 212

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (205)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4663

Gly Ala Val Ala Ala Arg Ala Ile Arg Leu Thr His Leu Ala Pro
 1 5 10 15

Val Pro Gln Asp Gln Ser Gly Ala Gly Arg Glu Gly Glu Glu Ala Arg
 20 25 30

Ala Arg Arg Ala Arg Val Arg Ile Gly Ala Gly Arg Ser Arg Asp Leu
 35 40 45

Gly Ser Gly Arg Gly Gly Cys Glu Arg Ala Ala Asn Arg Ala Gly Gly
 50 55 60

Gly Arg Ala His His Gly Gly Glu Thr Arg Asp Gln Leu Thr Val Tyr
 65 70 75 80

Leu Gly Lys Arg Asp Phe Val Asp His Leu Asp Lys Val Asp Pro Val
 85 90 95

4234

Asp Gly Val Val Leu Val Asp Pro Asp Tyr Leu Lys Asp Arg Lys Val
 100 105 110

Phe Val Thr Leu Thr Cys Ala Phe Arg Tyr Gly Arg Glu Asp Leu Asp
 115 120 125

Val Leu Gly Leu Ser Phe Arg Lys Asp Leu Phe Ile Ala Thr Tyr Gln
 130 135 140

Ala Phe Pro Pro Val Pro Asn Pro Pro Arg Pro Pro Thr Arg Leu Gln
 145 150 155 160

Asp Arg Leu Leu Arg Lys Leu Gly Gln His Ala Xaa Pro Phe Phe Phe
 165 170 175

Thr Ile Pro Gln Asn Leu Pro Cys Ser Val Thr Leu Gln Pro Gly Pro
 180 185 190

Glu Asp Thr Gly Lys Ala Cys Gly Val Asp Phe Glu Xaa Glu Pro Ser
 195 200 205

Val Leu Asn His
 210

<210> 4664

<211> 137

<212> PRT

<213> Homo sapiens

<400> 4664

Ala Ala Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu
 1 5 10 15

Glu Asp Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser
 20 25 30

Val Ser Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser
 35 40 45

Arg Val Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu
 50 55 60

Glu Ile Gln Trp Phe Ala Asp Lys Phe Ser Phe His Leu Lys Gly Arg
 65 70 75 80

Lys Leu Glu Gln Pro Met Asn Leu Ile Pro Phe Val Glu Thr Ala Met
 85 90 95

4235

Gly Leu Leu Asn Phe Lys Ala Val Cys Glu Glu Thr Leu Lys Val Gly
 100 105 110

Pro Gln Val Gly Leu Phe Leu Asp Ala Val Val Phe Gly Arg Arg Arg
 115 120 125

Leu Ser Ser Gln His Arg Cys Asn Lys
 130 135

<210> 4665

<211> 197

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4665

Val Ile Cys Met Trp Gln Gly Cys Ala Val Glu Arg Pro Val Gly Arg
 1 5 10 15

Met Thr Ser Gln Thr Pro Leu Pro Gln Ser Pro Arg Pro Arg Arg Pro
 20 25 30

Thr Met Ser Thr Val Val Glu Leu Asn Val Gly Gly Glu Phe His Thr
 35 40 45

Thr Thr Leu Gly Thr Leu Arg Lys Phe Pro Gly Ser Lys Leu Ala Glu
 50 55 60

Met Phe Ser Ser Leu Ala Lys Ala Ser Thr Asp Ala Glu Gly Arg Phe
 65 70 75 80

Phe Ile Asp Arg Pro Ser Thr Tyr Phe Arg Pro Ile Leu Asp Tyr Leu
 85 90 95

Arg Thr Gly Gln Val Pro Thr Gln His Ile Pro Glu Val Tyr Arg Glu
 100 105 110

Ala Gln Phe Tyr Glu Ile Lys Pro Leu Val Lys Leu Leu Glu Asp Met
 115 120 125

4236

Pro Gln Ile Phe Gly Glu Gln Val Ser Arg Lys Gln Phe Leu Leu Gln
 130 135 140

Val Pro Gly Tyr Ser Glu Asn Leu Glu Leu Met Val Arg Leu Ala Arg
 145 150 155 160

Ala Glu Ala Ile Thr Ala Arg Xaa Ser Ser Val Xaa Val Cys Leu Val
 165 170 175

Glu Thr Glu Glu Gln Asp Ala Tyr Tyr Ser Glu Val Leu Cys Phe Ser
 180 185 190

Cys Arg Ile Arg Arg
 195

<210> 4666

<211> 293

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4666

Gln Ser Lys Met Gly Ala Tyr His Thr Ile Glu Leu Glu Pro Asn Arg
 1 5 10 15

Gln Phe Thr Leu Ala Lys Lys Gln Trp Asp Ser Val Val Leu Glu Arg
 20 25 30

Ile Glu Gln Ala Cys Xaa Pro Ala Trp Ser Ala Asp Val Ala Ala Val
 35 40 45

Val Met Gln Glu Gly Leu Ala His Ile Cys Leu Val Thr Pro Ser Met
 50 55 60

Thr Leu Thr Arg Ala Lys Val Glu Val Asn Ile Pro Arg Lys Arg Lys
 65 70 75 80

Gly Asn Cys Ser Gln His Asp Arg Ala Leu Glu Arg Phe Tyr Glu Gln
 85 90 95

Val Val Gln Ala Ile Gln Arg His Ile His Phe Asp Val Val Lys Cys
 100 105 110

Ile Leu Val Ala Ser Pro Gly Phe Val Arg Glu Gln Phe Cys Asp Tyr
 115 120 125

4237

Met Phe Gln Gln Ala Val Lys Thr Asp Asn Lys Leu Leu Leu Glu Asn
 130 135 140
 Arg Ser Lys Phe Leu Gln Val His Ala Ser Ser Gly His Lys Tyr Ser
 145 150 155 160
 Leu Lys Glu Ala Leu Cys Asp Pro Thr Val Ala Ser Arg Leu Ser Asp
 165 170 175
 Thr Lys Ala Ala Gly Glu Val Lys Ala Leu Asp Asp Phe Tyr Lys Met
 180 185 190
 Leu Gln His Glu Pro Asp Arg Ala Phe Tyr Gly Leu Lys Gln Val Glu
 195 200 205
 Lys Ala Asn Glu Ala Met Ala Ile Asp Thr Leu Leu Ile Ser Asp Glu
 210 215 220
 Leu Phe Arg His Gln Asp Val Ala Thr Arg Ser Arg Tyr Val Arg Leu
 225 230 235 240
 Val Asp Ser Val Lys Glu Asn Ala Gly Thr Val Arg Ile Phe Ser Ser
 245 250 255
 Leu His Val Ser Gly Glu Gln Leu Ser Gln Leu Thr Gly Val Ala Ala
 260 265 270
 Ile Leu Arg Phe Pro Val Pro Glu Leu Ser Asp Gln Glu Gly Asp Ser
 275 280 285
 Ser Ser Glu Glu Asp
 290

<210> 4667

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

4238

<400> 4667

Pro Ala Ser Thr Ala Trp Val Pro Pro Pro Gly Xaa Asp Pro Gly Pro
 1 5 10 15

Arg Ser Leu Ala Pro Gly Trp Asp Pro Ala Pro Gly Ser Tyr Xaa Arg
 20 25 30

Gly Ser Gln Leu Arg Arg Pro Ala Gln Pro Asp Ser Leu Lys Ala Gln
 35 40 45

Arg Ala Gly Ser Arg Pro Pro
 50 55

<210> 4668

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4668

Val Asp Pro Arg Val Xaa Pro Arg Ser Gly Gly Glu Lys Pro Gly Gly
 1 5 10 15

Leu Gly Ala Pro Ala Gly Ile Gly Ser Arg Leu Gly Cys Glu Arg Phe
 20 25 30

Ser Arg Ser Arg Glu Ile Leu Gln Ala Ile Thr Met Ser Thr Asp Thr
 35 40 45

Gly Val Ser Leu Pro Ser Tyr Glu Glu Asp Gln Gly Ser Lys Leu Ile
 50 55 60

Arg Lys Ala Lys Glu Ala Pro Phe Val Pro Val Gly Ile Ala Gly Phe
 65 70 75 80

Ala Ala Ile Val Ala Tyr Gly Leu Tyr Lys Leu Lys Ser Arg Gly Asn
 85 90 95

Thr Lys Met Ser Ile His Leu Ile His Met Arg Val Ala Ala Gln Gly
 100 105 110

Phe Val Val Gly Ala Met Thr Val Gly Met Gly Tyr Ser Met Tyr Arg
 115 120 125

Glu Phe Trp Ala Lys Pro Lys Pro

4239

130

135

<210> 4669

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4669

Thr	Ala	Ser	Trp	Ser	Pro	Ala	Pro	Val	Pro	Ser	Ser	Leu	Glu	Arg	Leu
1				5					10					15	

Phe	Ser	Pro	Asp	Gly	Thr	Phe	Pro	Ser	Arg	Arg	Phe	Leu	Gly	Leu	Trp
			20					25					30		

Leu	Phe	Phe	Ser	Cys	Ala	Arg	Leu	Ile	Gly	His	Leu	Leu	Ala	Ser	Ile
			35				40					45			

Ser	Val	Val	Leu	Leu	Pro	His	Phe	Leu	Phe	Cys	Cys	Phe	Ser	Val	Leu
	50					55				60					

Ser	Lys	Tyr	Leu	Leu	Cys	Ser	Trp	Leu	Pro	Phe	Xaa	Arg	Gln	Val	Phe
65					70					75				80	

Ser	Phe	Pro	Leu	Ala	Leu	Leu	Leu	Ile	Trp	Leu	Leu	Pro	Thr	Lys	Ala
			85						90					95	

Cys	Ser	Val	Arg	Ile	Ser	Trp	Phe	Ser	Thr	Cys	Gln	Asn	Leu	Leu	Gln
		100					105						110		

Pro	Gln	Phe	Leu	Gly	Leu	Asn	Leu	Tyr	Val
	115					120			

<210> 4670

<211> 439

<212> PRT

<213> Homo sapiens

<400> 4670

Gly	Gly	Arg	Gly	Gln	Glu	Pro	Gln	Met	Arg	Ala	Phe	Leu	Ala	Cys	Met
1				5					10					15	

Arg	Ser	Asp	Thr	Pro	Ala	Met	Leu	Asn	Pro	Ala	Asn	Val	Pro	Thr	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

30

Gly Pro Phe Pro Leu Gln Val Val Ser Val Gly Gly Pro Ala Arg Gly

4241

290 295 300
 Arg Pro Arg Gly Val Ile Ser Thr Pro Val Ile Arg Thr Phe Gly Arg
 305 310 315 320
 Gly Gly Arg Tyr Tyr Gly Arg Gly Tyr Lys Asn Gln Ala Ala Ile Gln
 325 330 335
 Gly Arg Pro Pro Tyr Ala Ala Ser Ala Glu Glu Val Ala Lys Glu Leu
 340 345 350
 Lys Ser Lys Ser Gly Glu Ser Lys Ser Ser Ala Met Ser Ser Asp Gly
 355 360 365
 Ser Leu Ala Glu Asn Gly Val Met Ala Glu Glu Lys Pro Ala Pro Gln
 370 375 380
 Met Asn Gly Ser Thr Gly Asp Ala Arg Ala Pro Ser His Ser Glu Ser
 385 390 395 400
 Ala Leu Asn Asn Asp Ser Lys Thr Cys Asn Thr Asn Pro His Leu Asn
 405 410 415
 Ala Leu Ser Thr Asp Ser Ala Cys Arg Arg Glu Ala Ala Leu Glu Ala
 420 425 430
 Ala Val Leu Asn Lys Glu Glu
 435

<210> 4671

<211> 102

<212> PRT

<213> Homo sapiens

<400> 4671

Asn Arg Lys Val Cys Arg Lys Ile Ala Ala His Gly Leu Cys Arg Lys
 1 5 10 15
 Glu Ser Leu Gln Asn Leu Leu His Ser Ser Arg Lys Leu Ser Leu Gln
 20 25 30
 Val Leu Asn Phe Val His Ser Phe Gln Glu Gly Ala Ser Ile Leu Asp
 35 40 45
 Ile His Thr Glu Pro Ser Phe Ser Ser Leu Leu Ser Gln Ser Ser Tyr
 50 55 60
 Ala Asp Met Gly Val Pro Leu Pro Ala Lys Asn Leu Ile Phe Lys Asp
 65 70 75 80

4242

Gly Val Leu Ser Glu Trp Ser Gly Arg Ser Pro Ser Ser Leu Leu Ile
85 90 95

Ala Asn Leu His Leu Gln
100

<210> 4672

<211> 631

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4243

<222> (341)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (357)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4672

Lys Asp Glu Glu Glu Glu Pro Pro Ser Met Thr Gln Leu Leu Arg Arg
 1 5 10 15

Xaa Xaa Leu Ser Cys His Arg Pro Gly Met Trp Ser Val His Cys Arg
 20 25 30

Ser Lys Glu Xaa Xaa Asp Met Met Gly Arg Asn Gln Thr Ala Val Arg
 35 40 45

Glu Glu Met Xaa Leu Leu Ala Asn Tyr Leu Asp Ser Met Tyr Xaa Met
 50 55 60

Leu Asn Ile Arg Ile Val Leu Val Gly Leu Glu Ile Trp Thr Asn Gly
 65 70 75 80

Asn Leu Ile Asn Ile Val Gly Gly Ala Gly Asp Val Leu Gly Asn Xaa
 85 90 95

Val Gln Trp Arg Glu Lys Phe Leu Ile Thr Arg Arg Arg His Asp Ser
 100 105 110

Ala Gln Leu Val Leu Lys Lys Gly Phe Gly Gly Thr Ala Gly Met Ala
 115 120 125

Phe Val Gly Thr Val Cys Ser Arg Ser His Ala Gly Gly Ile Asn Val
 130 135 140

Phe Gly Gln Ile Thr Val Glu Thr Phe Ala Ser Ile Val Ala His Glu
 145 150 155 160

Leu Gly His Asn Leu Gly Met Asn His Asp Asp Gly Arg Asp Cys Ser
 165 170 175

Cys Gly Ala Lys Ser Cys Ile Met Asn Ser Gly Ala Ser Gly Ser Arg
 180 185 190

Asn Phe Ser Ser Cys Ser Ala Glu Asp Phe Glu Lys Leu Thr Leu Asn
 195 200 205

Lys Gly Gly Asn Cys Leu Leu Asn Ile Pro Lys Pro Asp Glu Ala Tyr
 210 215 220

4244

Ser Ala Pro Ser Cys Gly Asn Lys Leu Val Asp Ala Gly Glu Glu Cys
 225 230 235 240
 Asp Cys Gly Thr Pro Lys Glu Cys Glu Leu Asp Pro Cys Cys Glu Gly
 245 250 255
 Ser Thr Cys Lys Leu Lys Ser Phe Ala Glu Cys Ala Tyr Gly Asp Cys
 260 265 270
 Cys Lys Asp Cys Arg Phe Leu Pro Gly Gly Thr Leu Cys Arg Gly Lys
 275 280 285
 Thr Ser Glu Cys Asp Val Pro Glu Tyr Cys Asn Gly Ser Ser Gln Phe
 290 295 300
 Cys Gln Pro Asp Val Phe Ile Gln Asn Gly Tyr Pro Cys Gln Asn Asn
 305 310 315 320
 Lys Ala Tyr Cys Tyr Asn Gly Met Cys Gln Tyr Tyr Asp Ala Gln Cys
 325 330 335
 Gln Val Ile Phe Xaa Ser Lys Ala Lys Ala Ala Pro Lys Asp Cys Phe
 340 345 350
 Ile Glu Val Asn Xaa Lys Gly Asp Arg Phe Gly Asn Cys Gly Phe Ser
 355 360 365
 Gly Asn Glu Tyr Lys Lys Cys Ala Thr Gly Asn Ala Leu Cys Gly Lys
 370 375 380
 Leu Gln Cys Glu Asn Val Gln Glu Ile Pro Val Phe Gly Ile Val Pro
 385 390 395 400
 Ala Ile Ile Gln Thr Pro Ser Arg Gly Thr Lys Cys Trp Gly Val Asp
 405 410 415
 Phe Gln Leu Gly Ser Asp Val Pro Asp Pro Gly Met Val Asn Glu Gly
 420 425 430
 Thr Lys Cys Gly Ala Gly Lys Ile Cys Arg Asn Phe Gln Cys Val Asp
 435 440 445
 Ala Ser Val Leu Asn Tyr Asp Cys Asp Val Gln Lys Lys Cys His Gly
 450 455 460
 His Gly Val Cys Asn Ser Asn Lys Asn Cys His Cys Glu Asn Gly Trp
 465 470 475 480
 Ala Pro Pro Asn Cys Glu Thr Lys Gly Tyr Gly Gly Ser Val Asp Ser
 485 490 495

4245

Gly Pro Thr Tyr Asn Glu Met Asn Thr Ala Leu Arg Asp Gly Leu Leu
 500 505 510

Val Phe Phe Phe Leu Ile Val Pro Leu Ile Val Cys Ala Ile Phe Ile
 515 520 525

Phe Ile Lys Arg Asp Gln Leu Trp Arg Ser Tyr Phe Arg Lys Lys Arg
 530 535 540

Ser Gln Thr Tyr Glu Ser Asp Gly Lys Asn Gln Ala Asn Pro Ser Arg
 545 550 555 560

Gln Pro Gly Ser Val Pro Arg His Val Ser Pro Val Thr Pro Pro Arg
 565 570 575

Glu Val Pro Ile Tyr Ala Asn Arg Phe Ala Val Pro Thr Tyr Ala Ala
 580 585 590

Lys Gln Pro Gln Gln Phe Pro Ser Arg Pro Pro Pro Pro Gln Pro Lys
 595 600 605

Val Ser Ser Gln Gly Asn Leu Ile Pro Ala Arg Pro Ala Pro Ala Pro
 610 615 620

Pro Leu Tyr Ser Ser Leu Thr
 625 630

<210> 4673

<211> 98

<212> PRT

<213> Homo sapiens

<400> 4673

Met Ile Ala Thr Tyr Cys Phe Cys Cys Cys Phe Phe Ser Asp Ser Phe
 1 5 10 15

Leu Ser Leu Asp Leu Phe Val Leu Ser Cys Gly Glu Trp Cys Phe Ser
 20 25 30

Tyr Cys Val Ala Ala Arg Ile Arg Ile Gln Phe Leu Phe Leu Leu Pro
 35 40 45

Tyr Ser Tyr Cys Val Ala Thr Arg Ile Arg Ile Gln Phe Leu Phe Ile
 50 55 60

Leu Pro Cys Ser Glu Gly Ser Leu Ile Ser Thr Lys Lys Leu Leu Glu
 65 70 75 80

Ala Glu Lys Val Asn Val Ile Val His Ser Ala Phe Lys Lys Leu Phe

4246

85

90

95

Gln Leu

<210> 4674

<211> 35

<212> PRT

<213> Homo sapiens

<400> 4674

Asn Lys Ser Trp Ser Ser Thr Ala Val Ala Ala Ala Leu Glu Leu Val
 1 5 10 15

Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Val Met Asn Arg Asn
 20 25 30

Phe Gln Met
 35

<210> 4675

<211> 487

<212> PRT

<213> Homo sapiens

<400> 4675

Phe Ser Glu Val Gln Ile Ala Leu Asn Glu Ala Lys Leu Ser Glu Glu
 1 5 10 15

Lys Val Lys Ser Glu Cys His Arg Val Gln Glu Glu Asn Ala Arg Leu
 20 25 30

Lys Lys Lys Lys Glu Gln Leu Gln Gln Glu Ile Glu Asp Trp Ser Lys
 35 40 45

Leu His Ala Glu Leu Ser Glu Gln Ile Lys Ser Phe Glu Lys Ser Gln
 50 55 60

Lys Asp Leu Glu Val Ala Leu Thr His Lys Asp Asp Asn Ile Asn Ala
 65 70 75 80

Leu Thr Asn Cys Ile Thr Gln Leu Asn Leu Leu Glu Cys Glu Ser Glu
 85 90 95

Ser Glu Gly Gln Asn Lys Gly Gly Asn Asp Ser Asp Glu Leu Ala Asn
 100 105 110

4247

Gly Glu Val Gly Gly Asp Arg Asn Glu Lys Met Lys Asn Gln Ile Lys
 115 120 125

Gln Met Met Asp Val Ser Arg Thr Gln Thr Ala Ile Ser Val Val Glu
 130 135 140

Glu Asp Leu Lys Leu Leu Gln Leu Lys Leu Arg Ala Ser Val Ser Thr
 145 150 155 160

Lys Cys Asn Leu Glu Asp Gln Val Lys Lys Leu Glu Asp Asp Arg Asn
 165 170 175

Ser Leu Gln Ala Ala Lys Ala Gly Leu Glu Asp Glu Cys Lys Thr Leu
 180 185 190

Arg Gln Lys Val Glu Ile Leu Asn Glu Leu Tyr Gln Gln Lys Glu Met
 195 200 205

Ala Leu Gln Lys Lys Leu Ser Gln Glu Glu Tyr Glu Arg Gln Glu Arg
 210 215 220

Glu His Arg Leu Ser Ala Ala Asp Glu Lys Ala Val Ser Ala Ala Glu
 225 230 235 240

Glu Val Lys Thr Tyr Lys Arg Arg Ile Glu Glu Met Glu Asp Glu Leu
 245 250 255

Gln Lys Thr Glu Arg Ser Phe Lys Asn Gln Ile Ala Thr His Glu Lys
 260 265 270

Lys Ala His Glu Asn Trp Leu Lys Ala Arg Ala Ala Glu Arg Ala Ile
 275 280 285

Ala Glu Glu Lys Arg Glu Ala Ala Asn Leu Arg His Lys Leu Leu Glu
 290 295 300

Leu Thr Gln Lys Met Ala Met Leu Gln Glu Glu Pro Val Ile Val Lys
 305 310 315 320

Pro Met Pro Gly Lys Pro Asn Thr Gln Asn Pro Pro Arg Arg Gly Pro
 325 330 335

Leu Ser Gln Asn Gly Ser Phe Gly Pro Ser Pro Val Ser Gly Gly Glu
 340 345 350

Cys Ser Pro Pro Leu Thr Val Glu Pro Pro Val Arg Pro Leu Ser Ala
 355 360 365

Thr Leu Asn Arg Arg Asp Met Pro Arg Ser Glu Phe Gly Ser Val Asp
 370 375 380

4248

Gly Pro Leu Pro His Pro Arg Trp Ser Ala Glu Ala Ser Gly Lys Pro
 385 390 395 400
 Ser Pro Ser Asp Pro Gly Ser Gly Thr Ala Thr Met Met Asn Ser Ser
 405 410 415
 Ser Arg Gly Ser Ser Pro Thr Arg Val Leu Asp Glu Gly Lys Val Asn
 420 425 430
 Met Ala Pro Lys Gly Pro Pro Pro Phe Pro Gly Val Pro Leu Met Ser
 435 440 445
 Thr Pro Met Gly Gly Pro Val Pro Pro Pro Ile Arg Tyr Gly Pro Pro
 450 455 460
 Pro Gln Leu Cys Gly Pro Phe Gly Pro Arg His Phe Leu His Pro Leu
 465 470 475 480
 Ala Leu Val Cys Val His His
 485

<210> 4676

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4676

Ala Phe Asp Glu Ala Ile Ala Glu Leu Asp Thr Leu Asn Glu Glu Ser
 1 5 10 15
 Tyr Lys Asp Ser Thr Leu Xaa Met Gln Leu Leu Arg Asp Asn Leu Thr
 20 25 30
 Val Ser Thr Thr Ser Thr Gly Phe Ile Val Ser Phe Leu Phe Thr Tyr
 35 40 45
 Leu Ile Ile His Cys Tyr Leu Gln Glu Gly Ile Cys Thr Ile Lys Cys
 50 55 60
 Ser Tyr Ser Phe Lys Leu Leu Asn Leu Leu
 65 70

4249

<210> 4677

<211> 414

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (391)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4677

Val Ile Gly Glu Phe Arg Asp Cys Ile Ser Ser Arg Glu Phe Leu Gln
 1 5 10 15

Pro Ser Ser Lys Ala Ser Leu Glu Ser Thr Ser Asp Leu Gly Ala Ser
 20 25 30

Gly Lys His Gly Gly Asn Val Ser Leu Asp Val Leu Pro Val Lys Gly
 35 40 45

Pro Gln Gly Ser Pro Leu Leu Ser Arg Ala Ala Arg Pro Pro Asp Gln
 50 55 60

Leu Ala Ser Glu Glu Pro Trp Thr Val Leu Pro Glu His Leu Ile Leu
 65 70 75 80

Val Ala Pro Ser Pro Cys Asp Met Ala Lys Thr Gly Arg Phe Gln Ile
 85 90 95

Val Asn Asn Ser Val Arg Leu Leu Arg Phe Glu Leu Cys Trp Pro Ala
 100 105 110

His Cys Leu Thr Val Thr Pro Gln His Gly Cys Val Ala Pro Glu Ser
 115 120 125

Lys Leu Gln Ile Leu Val Ser Pro Asn Ser Ser Leu Ser Thr Lys Gln
 130 135 140

Ser Met Phe Pro Trp Ser Gly Leu Ile Tyr Ile His Cys Asp Asp Gly
 145 150 155 160

Gln Lys Lys Ile Val Lys Val Gln Ile Arg Glu Asp Leu Thr Gln Val
 165 170 175

Glu Leu Leu Thr Arg Leu Thr Ser Lys Pro Phe Gly Ile Leu Ser Pro
 180 185 190

Val Ser Glu Pro Ser Val Ser His Leu Val Lys Pro Met Thr Lys Pro
 195 200 205

Pro Ser Thr Lys Val Glu Ile Arg Asn Lys Ser Ile Thr Phe Pro Thr

4250

210		215		220
Thr Glu Pro Gly Glu Thr Ser Glu Ser Cys Leu Glu Leu Glu Asn His				
225		230		235
				240
Gly Thr Thr Asp Val Lys Trp His Leu Ser Ser Leu Ala Pro Pro Tyr				
	245		250	255
Val Lys Gly Val Asp Glu Ser Gly Asp Val Phe Arg Ala Thr Tyr Ala				
	260		265	270
Ala Phe Arg Cys Ser Pro Ile Ser Gly Leu Leu Glu Ser His Gly Ile				
	275		280	285
Gln Lys Val Ser Ile Thr Phe Leu Pro Arg Gly Arg Gly Asp Tyr Ala				
	290		295	300
Gln Phe Trp Asp Val Glu Cys His Pro Leu Lys Glu Pro His Met Lys				
	305		310	315
				320
His Thr Leu Arg Phe Gln Leu Ser Gly Gln Ser Ile Glu Ala Glu Asn				
	325		330	335
Glu Pro Glu Asn Ala Cys Leu Ser Thr Asp Ser Leu Ile Lys Ile Asp				
	340		345	350
His Leu Val Lys Pro Arg Arg Gln Ala Val Ser Glu Ala Ser Ala Arg				
	355		360	365
Ile Pro Asp Arg Gln Leu Asp Val Thr Ala Arg Gly Val Tyr Ala Pro				
	370		375	380
Glu Asp Val Tyr Arg Ser Xaa Arg Leu Val Trp Gly Asn His Gly His				
	385		390	395
				400
Leu Lys Ala Ile Cys Glu Ile Ile Leu Leu Leu His Thr His				
	405		410	

<210> 4678

<211> 85

<212> PRT

<213> Homo sapiens

<400> 4678

Leu Tyr Ile Phe Phe Gly Lys Lys Tyr Leu Lys Thr Ser Ala Tyr Lys
1 5 10 15

Asp Ser Gln Lys Cys Gln Arg Phe Ser Arg Lys Phe Ile Leu Tyr Ile
20 25 30

4251

Ser Lys Met Ile Tyr Gln Cys Tyr Leu Pro Lys Glu Ile Ile Leu Phe
 35 40 45

Phe Pro Phe Gly Glu Ile Leu Ser Ser Asn Met Arg Ile Arg Ser Leu
 50 55 60

Asp Ser Ile Ser Thr Tyr Thr Ile Lys Leu Asn Leu Glu Pro Glu Leu
 65 70 75 80

Gly Cys Ser Val Pro
 85

<210> 4679

<211> 112

<212> PRT

<213> Homo sapiens

<400> 4679

Arg Ala Pro Cys Val Ser Leu Ser Ser Gln Val His Ser Gly Leu Leu
 1 5 10 15

Leu His Pro Leu Leu Arg Gly Cys Pro Ala Gly Arg Gly Pro Leu Leu
 20 25 30

Ser Gln Leu Gln Ser Ser Pro Gly His Leu Gln Ala Phe Val Gly Leu
 35 40 45

Ser Gln Thr Trp Arg Glu Pro Gly Ala Ala Gly Ser Pro Phe His Leu
 50 55 60

Ser Ser Ser Phe Thr Pro Gly Gly Gly Ser Ala Leu Val Val Ser Pro
 65 70 75 80

Leu Gln Gly Ala His Leu His Val Phe Phe Trp Gly Glu Tyr Val Ala
 85 90 95

Lys Leu Thr Asn Leu Gln Thr Pro Glu Ile Ala Ala Trp Ser Arg Ala
 100 105 110

<210> 4680

<211> 561

<212> PRT

<213> Homo sapiens

4252

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4680

Asn	Cys	His	Phe	Lys	Leu	Ser	Ser	His	Tyr	Leu	Asp	Gly	Tyr	Thr	Ser
1				5					10					15	

Pro	Gly	Phe	Lys	Met	Leu	Glu	Ala	Tyr	Asn	Leu	Thr	Glu	Lys	Asn	Phe
			20					25					30		

Ala	Ser	Val	Gln	Gly	Val	Ser	Leu	Glu	Ser	Gly	Ser	Phe	Pro	Ser	Tyr
		35					40					45			

Ser	Ala	Tyr	Arg	Ile	Gln	Lys	Asn	Ala	Phe	Val	Asn	Gln	Pro	Thr	Ala
50						55					60				

Asp	Leu	His	Gln	Asn	Gly	Leu	Pro	Pro	Ser	Tyr	Thr	Ile	Ile	Leu	Leu
65					70					75				80	

Phe	Arg	Leu	Leu	Pro	Glu	Thr	Pro	Ser	Asp	Pro	Phe	Ala	Ile	Trp	Gln
				85					90					95	

Ile	Thr	Asp	Arg	Asp	Tyr	Lys	Pro	Gln	Val	Gly	Val	Ile	Ala	Asp	Xaa
		100						105					110		

Ser	Ser	Lys	Thr	Leu	Ser	Phe	Phe	Asn	Lys	Asp	Thr	Arg	Gly	Glu	Val
		115					120					125			

Gln	Thr	Val	Thr	Phe	Asp	Thr	Glu	Glu	Val	Lys	Thr	Leu	Phe	Tyr	Gly
	130					135					140				

Ser	Phe	His	Lys	Val	His	Ile	Val	Val	Thr	Ser	Lys	Ser	Val	Lys	Ile
145					150					155					160

Tyr	Ile	Asp	Cys	Tyr	Glu	Ile	Ile	Xaa	Lys	Xaa	Ile	Lys	Glu	Ala	Gly
			165						170					175	

Asn	Ile	Thr	Thr	Asp	Gly	Tyr	Glu	Ile	Leu	Gly	Lys	Leu	Leu	Lys	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4253

	180		185		190	
Glu Arg Lys Ser Ala Ala Phe Gln Ile Gln Ser Phe Asp Ile Val Cys						
	195		200		205	
Ser Pro Val Trp Thr Ser Arg Asp Arg Cys Cys Asp Ile Pro Ser Arg						
	210		215		220	
Arg Asp Glu Gly Lys Cys Pro Ala Phe Pro Asn Ser Cys Thr Cys Thr						
	225		230		235	240
Gln Asp Ser Val Gly Pro Pro Gly Pro Pro Gly Pro Ala Gly Gly Pro						
		245		250		255
Gly Ala Lys Gly Pro Arg Gly Glu Arg Gly Ile Ser Gly Ala Ile Gly						
		260		265		270
Pro Pro Gly Pro Arg Gly Asp Ile Gly Pro Pro Gly Pro Gln Gly Pro						
		275		280		285
Pro Gly Pro Gln Gly Pro Asn Gly Leu Ser Ile Pro Gly Glu Gln Gly						
		290		295		300
Arg Gln Gly Met Lys Gly Asp Ala Gly Glu Pro Gly Leu Pro Gly Arg						
	305		310		315	320
Thr Gly Thr Pro Gly Leu Pro Gly Pro Pro Gly Pro Met Gly Pro Pro						
		325		330		335
Gly Asp Arg Gly Phe Thr Gly Lys Asp Gly Ala Met Gly Pro Arg Gly						
		340		345		350
Pro Pro Gly Pro Pro Gly Ser Pro Gly Ser Pro Gly Val Thr Gly Pro						
		355		360		365
Ser Gly Lys Pro Gly Lys Pro Gly Asp His Gly Arg Pro Gly Pro Ser						
	370		375		380	
Gly Leu Lys Gly Glu Lys Gly Asp Arg Gly Asp Ile Ala Ser Gln Asn						
	385		390		395	400
Met Met Arg Ala Val Ala Arg Gln Val Cys Glu Gln Leu Ile Ser Gly						
		405		410		415
Gln Met Asn Arg Phe Asn Gln Met Leu Asn Gln Ile Pro Asn Asp Tyr						
		420		425		430
Gln Ser Ser Arg Asn Gln Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro						
		435		440		445
Gly Ser Ala Gly Ala Arg Gly Glu Pro Gly Pro Gly Gly Arg Pro Gly						

4254

450 455 460
 Phe Pro Gly Thr Pro Gly Met Gln Gly Pro Pro Gly Glu Arg Gly Leu
 465 470 475 480
 Pro Gly Glu Lys Gly Glu Arg Gly Thr Gly Ser Ser Gly Pro Arg Gly
 485 490 495
 Leu Pro Gly Pro Pro Gly Pro Gln Gly Glu Ser Arg Thr Gly Pro Pro
 500 505 510
 Gly Ser Thr Gly Ser Arg Gly Pro Pro Gly Pro Pro Gly Arg Pro Gly
 515 520 525
 Asn Ser Gly Ile Arg Gly Pro Pro Gly Pro Pro Gly Tyr Cys Asp Ser
 530 535 540
 Ser Gln Cys Ala Ser Ile Pro Tyr Asn Gly Gln Ser Tyr Pro Gly Ser
 545 550 555 560
 Gly

<210> 4681

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4681

Thr Ser Pro Thr Thr His Leu Ser Leu Val Pro Asn Ser Cys Ser Pro
 1 5 10 15

Gly Asp Pro Leu Val Leu Glu Arg Pro Pro Pro Arg Trp Ser Xaa Ser
 20 25 30

Phe Val Pro Leu Val Arg
 35

<210> 4682

<211> 309

<212> PRT

<213> Homo sapiens

4255

<400> 4682

Pro Ala Ile Ala Met Ala Arg Gly Lys Ala Lys Glu Glu Gly Ser Trp
 1 5 10 15
 Lys Lys Phe Ile Trp Asn Ser Glu Lys Lys Glu Phe Leu Gly Arg Thr
 20 25 30
 Gly Gly Ser Trp Phe Lys Ile Leu Leu Phe Tyr Val Ile Phe Tyr Gly
 35 40 45
 Cys Leu Ala Gly Ile Phe Ile Gly Thr Ile Gln Val Met Leu Leu Thr
 50 55 60
 Ile Ser Glu Phe Lys Pro Thr Tyr Gln Asp Arg Val Ala Pro Pro Gly
 65 70 75 80
 Leu Thr Gln Ile Pro Gln Ile Gln Lys Thr Glu Ile Ser Phe Arg Pro
 85 90 95
 Asn Asp Pro Lys Ser Tyr Glu Ala Tyr Val Leu Asn Ile Val Arg Phe
 100 105 110
 Leu Glu Lys Tyr Lys Asp Ser Ala Gln Arg Asp Asp Met Ile Phe Glu
 115 120 125
 Asp Cys Gly Asp Val Pro Ser Glu Pro Lys Glu Arg Gly Asp Phe Asn
 130 135 140
 His Glu Arg Gly Glu Arg Lys Val Cys Arg Phe Lys Leu Glu Trp Leu
 145 150 155 160
 Gly Asn Cys Ser Gly Leu Asn Asp Glu Thr Tyr Gly Tyr Lys Glu Gly
 165 170 175
 Lys Pro Cys Ile Ile Ile Lys Leu Asn Arg Val Leu Gly Phe Lys Pro
 180 185 190
 Lys Pro Pro Lys Asn Glu Ser Leu Glu Thr Tyr Pro Val Met Lys Tyr
 195 200 205
 Asn Pro Asn Val Leu Pro Val Gln Cys Thr Gly Lys Arg Asp Glu Asp
 210 215 220
 Lys Asp Lys Val Gly Asn Val Glu Tyr Phe Gly Leu Gly Asn Ser Pro
 225 230 235 240
 Gly Phe Pro Leu Gln Tyr Tyr Pro Tyr Tyr Gly Lys Leu Leu Gln Pro
 245 250 255
 Lys Tyr Leu Gln Pro Leu Leu Ala Val Gln Phe Thr Asn Leu Thr Met

4256

260 265 270
 Asp Thr Glu Ile Arg Ile Glu Cys Lys Ala Tyr Gly Glu Asn Ile Gly
 275 280 285
 Tyr Ser Glu Lys Asp Arg Phe Gln Gly Arg Phe Asp Val Lys Ile Glu
 290 295 300
 Val Lys Ser Asp Ser
 305

<210> 4683

<211> 177

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4683

Cys Phe Gly Phe Val Phe Pro Glu Ala Ala Ile Trp Ser Leu Ser Thr
 1 5 10 15
 Gly Met Ser Gln Thr Gly Pro Pro Met Ser Met Ala Ala Pro Ala Arg
 20 25 30
 Asn Ala Arg Val Ser Leu Pro Gly Leu Arg Val Asp Met Pro Ala Pro
 35 40 45
 Cys Gln Pro Pro Val Ala Trp Pro Gly Xaa Pro Glu Pro Val Cys Pro
 50 55 60
 Pro Gln Gly Trp Arg Ser Leu Trp Ala Pro Gly Gly Phe Pro Pro Gly
 65 70 75 80
 Asp Ser His Gly Ala Pro Cys Ser Arg Val Val Thr Val Ser Pro Glu
 85 90 95
 Met Thr Glu Thr Arg His Ser Pro Gly Pro Gln Arg Gly Gly Ala Ser
 100 105 110
 Arg Gln Thr Leu Gly Met Glu Leu Trp Cys Gly Leu Ser Cys Met Val
 115 120 125
 Ala Ser Ala Phe Cys Gln His Phe Trp Met Asp Ile Gly Thr Ile Ile
 130 135 140

4257

Ser Ile Leu Ile His Gly Asp Phe Lys Thr Thr Ile Lys Leu Ile Gln
 145 150 155 160

Ser Pro Leu Thr Leu Thr Asp Val Gly Ile Pro Leu Leu Glu Arg Glu
 165 170 175

Leu

<210> 4684

<211> 439

<212> PRT

<213> Homo sapiens

<400> 4684

Ala Arg Asp Glu Met Gly His Asn Phe Gly Met Phe His Asp Asp Tyr
 1 5 10 15

Ser Cys Lys Cys Pro Ser Thr Ile Cys Val Met Asp Lys Ala Leu Ser
 20 25 30

Phe Tyr Ile Pro Thr Asp Phe Ser Ser Cys Ser Arg Leu Ser Tyr Asp
 35 40 45

Lys Phe Phe Glu Asp Lys Leu Ser Asn Cys Leu Phe Asn Ala Pro Leu
 50 55 60

Pro Thr Asp Ile Ile Ser Thr Pro Ile Cys Gly Asn Gln Leu Val Glu
 65 70 75 80

Met Gly Glu Asp Cys Asp Cys Gly Thr Ser Glu Glu Cys Thr Asn Ile
 85 90 95

Cys Cys Asp Ala Lys Thr Cys Lys Ile Lys Ala Thr Phe Gln Cys Ala
 100 105 110

Leu Gly Glu Cys Cys Glu Lys Cys Gln Phe Lys Lys Ala Gly Met Val
 115 120 125

Cys Arg Pro Ala Lys Asp Glu Cys Asp Leu Pro Glu Met Cys Asn Gly
 130 135 140

Lys Ser Gly Asn Cys Pro Asp Asp Arg Phe Gln Val Asn Gly Phe Pro
 145 150 155 160

Cys His His Gly Lys Gly His Cys Leu Met Gly Thr Cys Pro Thr Leu
 165 170 175

Gln Glu Gln Cys Thr Glu Leu Trp Gly Pro Gly Thr Glu Val Ala Asp

4258

180	185	190
Lys Ser Cys Tyr Asn Arg Asn Glu Gly Gly Ser Lys Tyr Gly Tyr Cys		
195	200	205
Arg Arg Val Asp Asp Thr Leu Ile Pro Cys Lys Ala Asn Asp Thr Met		
210	215	220
Cys Gly Lys Leu Phe Cys Gln Gly Gly Ser Asp Asn Leu Pro Trp Lys		
225	230	235
Gly Arg Ile Val Thr Phe Leu Thr Cys Lys Thr Phe Asp Pro Glu Asp		
	245	250
Thr Ser Gln Glu Ile Gly Met Val Ala Asn Gly Thr Lys Cys Gly Asp		
	260	265
Asn Lys Val Cys Ile Asn Ala Glu Cys Val Asp Ile Glu Lys Ala Tyr		
	275	280
Lys Ser Thr Asn Cys Ser Ser Lys Cys Lys Gly His Ala Val Cys Asp		
	290	295
His Glu Leu Gln Cys Gln Cys Glu Glu Gly Trp Ile Pro Pro Asp Cys		
305	310	315
Asp Asp Ser Ser Val Val Phe His Phe Ser Ile Val Val Gly Val Leu		
	325	330
Phe Pro Met Ala Val Ile Phe Val Val Val Ala Met Val Ile Arg His		
	340	345
Gln Ser Ser Arg Glu Lys Gln Lys Lys Asp Gln Arg Pro Leu Ser Thr		
	355	360
Thr Gly Thr Arg Pro His Lys Gln Lys Arg Lys Pro Gln Met Val Lys		
	370	375
Ala Val Gln Pro Gln Glu Met Ser Gln Met Lys Pro His Val Tyr Asp		
385	390	395
Leu Pro Val Glu Gly Asn Glu Pro Pro Ala Ser Phe His Lys Asp Thr		
	405	410
Asn Ala Leu Pro Pro Thr Val Phe Lys Asp Asn Pro Met Ser Thr Pro		
	420	425
Lys Asp Ser Asn Pro Lys Ala		
435		

4259

<210> 4685

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4685

Ala Gly Xaa Pro Ala Gly Xaa Gly Pro Glu Phe Pro Gly Arg Pro Thr
1 5 10 15

Arg Pro Asp Asp Cys Asn Ser Pro Cys Tyr Arg Arg Glu Ile Ile Gly
20 25 30

Ser Cys Leu Leu Thr Leu Cys Val Ala Leu Trp Ser Trp Ile Phe Leu
35 40 45

Arg Phe Lys Lys Asn His Ser Phe Gly Thr Phe Asn
50 55 60

<210> 4686

<211> 48

<212> PRT

<213> Homo sapiens

<400> 4686

Gly Val Val Tyr Ser Tyr Phe Phe Phe Leu Leu Val Ile Leu Thr Asn
1 5 10 15

Met Ile Pro Leu Leu Glu Ser Leu Ser Leu Pro His Pro Gln Lys Cys
20 25 30

Leu Leu Phe Met Thr Val Thr Asn Tyr Ser Gly Gln Ile Ala Ser Phe
35 40 45

4260

<210> 4687

<211> 351

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4687

Gly Gly Ser Gly Glu Phe Trp Arg Lys Arg Arg Val Leu Leu Glu Leu
 1 5 10 15

Tyr Arg Pro Cys Phe Ser Gly Pro Arg Lys Val Ala Ser Xaa Ser Ala
 20 25 30

Ala Ala Ser Thr Leu Ser Glu Pro Pro Arg Arg Thr Gln Glu Ser Arg
 35 40 45

Thr Arg Thr Arg Ala Leu Gly Leu Pro Thr Leu Pro Met Glu Lys Leu
 50 55 60

Ala Ala Ser Thr Glu Pro Gln Gly Pro Arg Pro Val Leu Gly Arg Glu
 65 70 75 80

Ser Val Gln Val Pro Asp Asp Gln Asp Phe Arg Ser Phe Arg Ser Glu
 85 90 95

Cys Glu Ala Glu Val Gly Trp Asn Leu Thr Tyr Ser Arg Ala Gly Val
 100 105 110

Ser Val Trp Val Gln Ala Val Glu Met Asp Arg Thr Leu His Lys Ile
 115 120 125

Lys Cys Arg Met Glu Cys Cys Asp Val Pro Ala Glu Thr Leu Tyr Asp
 130 135 140

Val Leu His Asp Ile Glu Tyr Arg Lys Lys Trp Asp Ser Asn Val Ile
 145 150 155 160

Glu Thr Phe Asp Ile Ala Arg Leu Thr Val Asn Ala Asp Val Gly Tyr
 165 170 175

Tyr Ser Trp Arg Cys Pro Lys Pro Leu Lys Asn Arg Asp Val Ile Thr
 180 185 190

Leu Arg Ser Trp Leu Pro Met Gly Ala Asp Tyr Ile Ile Met Asn Tyr
 195 200 205

Ser Val Lys His Pro Lys Tyr Pro Pro Arg Lys Asp Leu Val Arg Ala

4261

210	215	220
Val Ser Ile Gln Thr Gly Tyr Leu Ile Gln Ser Thr Gly Pro Lys Ser		
225	230	235 240
Cys Val Ile Thr Tyr Leu Ala Gln Val Asp Pro Lys Gly Ser Leu Pro		
	245	250 255
Lys Trp Val Val Asn Lys Ser Ser Gln Phe Leu Ala Pro Lys Ala Met		
	260	265 270
Lys Lys Met Tyr Lys Ala Cys Leu Lys Tyr Pro Glu Trp Lys Gln Lys		
	275	280 285
His Leu Pro His Phe Lys Pro Trp Leu His Pro Glu Gln Ser Pro Leu		
	290	295 300
Pro Ser Leu Ala Leu Ser Glu Leu Ser Val Gln His Ala Asp Ser Leu		
305	310	315 320
Glu Asn Ile Asp Glu Ser Ala Val Ala Glu Ser Arg Glu Glu Arg Met		
	325	330 335
Gly Gly Ala Gly Gly Glu Gly Ser Asp Asp Asp Thr Ser Leu Thr		
	340	345 350

<210> 4688

<211> 54

<212> PRT

<213> Homo sapiens

<400> 4688

Met Gly Val Tyr Asn Phe Tyr Val Ser Cys Phe Gln Gln Leu Cys Leu
1 5 10 15

Gly Trp Ser Leu Ala Gly Gly Asp Arg Ile Ser Glu Trp His Ile Ile
20 25 30

Ser Ile Leu His Met Ser Lys Leu Arg His Arg Glu Leu Asp Asn Leu
35 40 45

Pro Arg Leu His Arg Leu
50

<210> 4689

<211> 65

<212> PRT

4263

Val Glu Met Gly Arg Arg Pro Gly Gln Cys Ser Trp Lys Leu Thr Leu
65 70 75 80

His Phe Ser Ala Pro Val Phe Gln Phe Lys Ser Ala Phe Ser Ser Ala
85 90 95

Glu Thr Thr Glu Leu Ser Gly Lys Cys Val Val Ala Leu Ala Thr Gly
100 105 110

Glu Val Trp Gly Gln Leu Val Ile Arg Lys Gly Met Glu Asp Val
115 120 125

<210> 4692

<211> 329

<212> PRT

<213> Homo sapiens

<400> 4692

Ser Tyr Val His Lys Ser Leu Ser Trp Lys Pro Leu Leu Ser Phe Ile
1 5 10 15

Ser Pro Ser Ile Pro Ile Thr Phe Leu Arg Asn Val Thr Trp Val Met
20 25 30

Val Asn Leu Cys Arg His Lys Asp Pro Pro Pro Pro Met Glu Thr Ile
35 40 45

Gln Glu Ile Leu Pro Ala Leu Cys Val Leu Ile His His Thr Asp Val
50 55 60

Asn Ile Leu Val Asp Thr Val Trp Ala Leu Ser Tyr Leu Thr Asp Ala
65 70 75 80

Gly Asn Glu Gln Ile Gln Met Val Ile Asp Ser Gly Ile Val Pro His
85 90 95

Leu Val Pro Leu Leu Ser His Gln Glu Val Lys Val Gln Thr Ala Ala
100 105 110

Leu Arg Ala Val Gly Asn Ile Val Thr Gly Thr Asp Glu Gln Thr Gln
115 120 125

Val Val Leu Asn Cys Asp Ala Leu Ser His Phe Pro Ala Leu Leu Thr
130 135 140

His Pro Lys Glu Lys Ile Asn Lys Glu Ala Val Trp Phe Leu Ser Asn
145 150 155 160

4264

Ile Thr Ala Gly Asn Gln Gln Gln Val Gln Ala Val Ile Asp Ala Asn
165 170 175

Leu Val Pro Met Ile Ile His Leu Leu Asp Lys Gly Asp Phe Gly Thr
180 185 190

Gln Lys Glu Ala Ala Trp Ala Ile Ser Asn Leu Thr Ile Ser Gly Arg
195 200 205

Lys Asp Gln Val Ala Tyr Leu Ile Gln Gln Asn Val Ile Pro Pro Phe
210 215 220

Cys Asn Leu Leu Thr Val Lys Asp Ala Gln Val Val Gln Val Val Leu
225 230 235 240

Asp Gly Leu Ser Asn Ile Leu Lys Met Ala Glu Asp Glu Ala Glu Thr
245 250 255

Ile Gly Asn Leu Ile Glu Glu Cys Gly Gly Leu Glu Lys Ile Glu Gln
260 265 270

Leu Gln Asn His Glu Asn Glu Asp Ile Tyr Lys Leu Ala Tyr Glu Ile
275 280 285

Ile Asp Gln Phe Phe Ser Ser Asp Asp Ile Asp Glu Asp Pro Ser Leu
290 295 300

Val Pro Glu Ala Ile Gln Gly Gly Thr Phe Gly Phe Asn Ser Ser Ala
305 310 315 320

Asn Val Pro Thr Glu Gly Phe Gln Phe
325

<210> 4693

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4693

Met Leu Ser Val Ser Leu Val Phe Ile Ser Ala Ser Ser Ser Leu Leu
1 5 10 15

Gly Tyr Ile Val Val Leu Phe Pro Val Xaa His Leu Ser Leu Val Phe
20 25 30

His Tyr Gly Lys Phe Ile Lys Lys Leu Ala Pro Leu Leu Ser Ser Ser
35 40 45

Asn Ala His Lys Glu Met Glu Asp Ile
50 55

```
<210> 4694
<211> 69
<212> PRT
<213> Homo sapiens
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<400> 4694
Gly Lys Gly Ser Lys Pro Leu Lys Met Cys Phe Val Ile Arg Ser Ala
1 5 10 15

Leu Gln Thr Lys Tyr Ala Arg Cys Pro Phe Glu Ala Ser Glu Leu Ser
20 25 30

Leu Gln Gly Phe Lys Ala Thr Phe Gln Gln Glu Lys Ala Leu Arg Ala
35 40 45

Arg Arg Phe Ile Lys Glu Gly Lys Ala Leu Val Ser Leu Leu Arg Lys
50 55 60

Val Gly Phe Leu Ala
65

```
<210> 4695
<211> 461
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (312)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (406)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 4695
Gly Ser Pro Arg Leu Leu Gly Ala Ala Ala Leu Ala Leu Gly Gly Ala
1 5 10 15

4266

Leu Gly Leu Tyr His Thr Ala Arg Trp His Leu Arg Ala Gln Asp Leu
 20 25 30
 His Ala Glu Arg Ser Ala Ala Gln Leu Ser Leu Ser Ser Arg Leu Gln
 35 40 45
 Leu Thr Leu Tyr Gln Tyr Lys Thr Cys Pro Phe Cys Ser Lys Val Arg
 50 55 60
 Ala Phe Leu Asp Phe His Ala Leu Pro Tyr Gln Val Val Glu Val Asn
 65 70 75 80
 Pro Val Arg Arg Ala Glu Ile Lys Phe Ser Ser Tyr Arg Lys Val Pro
 85 90 95
 Ile Leu Val Ala Gln Glu Gly Glu Ser Ser Gln Gln Leu Asn Asp Ser
 100 105 110
 Ser Val Ile Ile Ser Ala Leu Lys Thr Tyr Leu Val Ser Gly Gln Pro
 115 120 125
 Leu Glu Glu Ile Ile Thr Tyr Tyr Pro Ala Met Lys Ala Val Asn Glu
 130 135 140
 Gln Gly Lys Glu Val Thr Glu Phe Gly Asn Lys Tyr Trp Leu Met Leu
 145 150 155 160
 Asn Glu Lys Glu Ala Gln Gln Val Tyr Gly Gly Lys Glu Ala Arg Thr
 165 170 175
 Glu Glu Met Lys Trp Arg Gln Trp Ala Asp Asp Trp Leu Val His Leu
 180 185 190
 Ile Ser Pro Asn Val Tyr Arg Thr Pro Thr Glu Ala Leu Ala Ser Phe
 195 200 205
 Asp Tyr Ile Val Arg Glu Gly Lys Phe Gly Ala Val Glu Gly Ala Val
 210 215 220
 Ala Lys Tyr Met Gly Ala Ala Ala Met Tyr Leu Ile Ser Lys Arg Leu
 225 230 235 240
 Lys Ser Arg His Arg Leu Gln Asp Asn Val Arg Glu Asp Leu Tyr Glu
 245 250 255
 Ala Ala Asp Lys Trp Val Ala Ala Val Gly Lys Asp Arg Pro Phe Met
 260 265 270
 Gly Gly Gln Lys Pro Asn Leu Ala Asp Leu Ala Val Tyr Gly Val Leu
 275 280 285

4267

Arg Val Met Glu Gly Leu Asp Ala Phe Asp Asp Leu Met Gln His Thr
 290 295 300
 His Ile Gln Pro Trp Tyr Leu Xaa Val Glu Arg Ala Ile Thr Glu Ala
 305 310 315 320
 Pro Gln Arg Thr Glu Cys Pro Pro Arg Arg Ala Glu Gly Arg Gln Ala
 325 330 335
 Glu Asp Ala Ser Cys Pro Arg Pro Gly Pro Leu Gly Pro Ala Pro Gly
 340 345 350
 Asp Thr Gly Trp Gly Gln Asp His Ser Ala Pro Cys Pro Arg Thr Pro
 355 360 365
 Thr Ser Pro Leu Ala Ser Asn Thr Gly His Leu Leu Gly Leu Arg Asp
 370 375 380
 Val Arg Asp Glu Phe Gln Pro Cys His Cys Pro Gly Ala Thr Pro Pro
 385 390 395 400
 Cys Pro Cys Leu Pro Xaa Cys Arg Pro Ser Ser Trp Thr Leu Ser Gly
 405 410 415
 Cys Pro Met Ala Thr Ser Cys Gly Trp Gly Pro Ser Thr Gly Gln Gln
 420 425 430
 Asp Gly Leu Phe Ser Val Glu Ser His Pro Trp Val Pro Leu Val Pro
 435 440 445
 Thr Leu Pro Lys Pro Pro Gly Thr Gly Thr Cys Leu Gln
 450 455 460

<210> 4696

<211> 274

<212> PRT

<213> Homo sapiens

<400> 4696

Thr Ser Arg Gln Asn Lys Thr Glu Asn Leu Leu Glu Ser Arg Met Met
 1 5 10 15
 Asp Pro Cys Ser Val Gly Val Gln Leu Arg Thr Thr Asn Glu Cys His
 20 25 30
 Lys Thr Tyr Tyr Thr Arg His Thr Gly Phe Lys Thr Leu Gln Glu Leu
 35 40 45
 Ser Ser Asn Asp Met Leu Leu Leu Gln Leu Arg Thr Gly Met Thr Leu

4268

50		55		60
Ser Gly Asn Asn Thr Ile Cys Phe His His Val Lys Ile Tyr Ile Asp				
65		70		75 80
Arg Phe Glu Asp Leu Gln Lys Ser Cys Cys Asp Pro Phe Asn Ile His				
	85		90	95
Lys Lys Leu Ala Lys Lys Asn Leu His Val Ile Asp Leu Asp Asp Ala				
	100		105	110
Thr Phe Leu Ser Ala Lys Phe Gly Arg Gln Leu Val Pro Gly Trp Lys				
	115		120	125
Leu Cys Pro Lys Cys Thr Gln Ile Ile Asn Gly Ser Val Asp Val Asp				
	130		135	140
Thr Glu Asp Arg Gln Lys Arg Lys Pro Glu Ser Asp Gly Arg Thr Ala				
145		150		155 160
Lys Ala Leu Arg Ser Leu Gln Phe Thr Asn Pro Gly Arg Gln Thr Glu				
	165		170	175
Phe Ala Pro Glu Thr Gly Lys Arg Glu Lys Arg Arg Leu Thr Lys Asn				
	180		185	190
Ala Thr Ala Gly Ser Asp Arg Gln Val Ile Pro Ala Lys Ser Lys Val				
	195		200	205
Tyr Asp Ser Gln Gly Leu Leu Ile Phe Ser Gly Met Asp Leu Cys Asp				
	210		215	220
Cys Leu Asp Glu Asp Cys Leu Gly Cys Phe Tyr Ala Cys Pro Ala Cys				
225		230		235 240
Gly Ser Thr Lys Cys Gly Ala Glu Cys Arg Cys Asp Arg Lys Trp Leu				
	245		250	255
Tyr Glu Gln Ile Glu Ile Glu Gly Gly Glu Ile Ile His Asn Lys His				
	260		265	270
Ala Gly				

<210> 4697

<211> 122

<212> PRT

<213> Homo sapiens

4269

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4697

Leu	Gly	Asp	Glu	Thr	Gly	Ser	Ser	Met	Thr	His	Leu	Ile	Glu	Tyr	Asp
1				5				10					15		

Arg	His	Xaa	Lys	Ser	Arg	Leu	Xaa	Pro	Leu	Gln	His	Leu	Tyr	Leu	Leu
			20				25					30			

Pro	Ala	Asp	His	Ser	Arg	Asn	Ala	Ala	Glu	Arg	Phe	Pro	Gly	Ala	Trp
		35					40					45			

Phe	Gln	Xaa	Pro	Thr	Val	Asp	Ser	Glu	Ala	Ser	Ala	Phe	Ala	Gly	Gly
	50					55					60				

Leu	Pro	Val	Ile	Phe	Trp	Ser	Trp	Ala	Gly	Leu	Val	Gly	Phe	Pro	Phe
65					70					75					80

Val	Trp	Pro	Val	Ser	Xaa	Cys	Leu	Asn	Pro	Leu	Ser	Phe	Ile	Lys	Ser
				85					90					95	

Lys	Thr	Lys	Glu	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Phe	Gly	Gly	Gly
			100					105					110		

Xaa	Arg	Tyr	Pro	Ile	Gly	Pro	Leu	Gly	Gly
		115					120		

4270

<210> 4698

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4698

Asn	Ser	Gly	Ser	His	Asn	Ile	Val	Ala	Ser	Arg	Ser	Xaa	Xaa	Ile	Phe
1				5					10					15	

Asp	Gln	Asp	Asp	Xaa	Asn	Gly	Leu	Thr	Trp	Val	Phe	Ile	Val	Tyr	Gln
		20						25					30		

Ile	Leu	His	Thr	Lys	Glu	Trp	Lys	Tyr	Ser	Phe	Thr	Lys	Phe	Leu	Arg
		35					40					45			

Lys	Ile	Phe	Leu	Pro	Ile	Tyr	His	Asn	Tyr	Arg	Met	Asp	Ile	Cys	Phe
	50					55					60				

<210> 4699

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4271

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4699

Gly	Ala	Arg	Leu	Gly	Ala	Leu	Gln	Ala	Ala	Pro	Gln	Pro	Gly	Thr	Pro
1				5					10					15	

Thr	Pro	Leu	Arg	Ser	Pro	Gln	Ala	Ser	Gly	Pro	His	Pro	Ser	Glu	Ala
			20					25					30		

Gln	Gly	Ser	Pro	Val	His	Ala	Gly	Phe	Ser	Pro	Gly	Pro	Met	Ser	Phe
		35					40					45			

Leu	Ala	Gly	Leu	Gly	Leu	Ala	Val	Gly	Leu	Ala	Leu	Leu	Leu	Tyr	Cys
	50					55					60				

Tyr	Pro	Pro	Asp	Pro	Lys	Gly	Leu	Pro	Gly	Thr	Arg	Arg	Val	Xaa	Gly
65					70					75					80

Phe	Xaa	Xaa	Val	Ile	Ile	Asp	Arg	His	Val	Ser	Arg	Tyr	Leu	Leu	Ala
				85					90					95	

Phe	Leu	Ala	Asp	Asp	Leu	Gly	Gly	Leu
			100				105	

<210> 4700

<211> 232

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4700

Gly	Ala	Ile	Gly	Thr	Ser	Ser	Pro	Ala	Leu	Leu	Glu	Cys	Gln	Glu	Gly
1					5					10				15	

4272

Val Gly Pro Ala Arg Pro Ser Leu Leu Val Pro Pro Pro Arg Xaa
 20 25 30
 Arg Arg Leu Asp Leu Ala Arg Thr Leu Pro Ala Glu Arg Thr Asp Ser
 35 40 45
 Gln Ser Leu Tyr Ile Val Tyr Ile Ala Leu Pro Gly Arg Thr Pro Arg
 50 55 60
 Pro Ala Leu Ala Phe Ala Phe Leu Met Pro Ala Cys Cys Asn Arg Pro
 65 70 75 80
 Ser Pro Arg Pro Ser Pro Ala His Leu Thr Ala Ser Ser Val Leu Arg
 85 90 95
 Arg Gln Arg His Val Leu Ala Ala Ser Ala Ala Ser Pro Cys Gln Trp
 100 105 110
 Ser Gly Leu Arg Val Ala His Ser Leu Arg Gln Val Val Ser Leu Cys
 115 120 125
 Pro Arg Cys Thr Gly Ser Cys Pro Phe Ser Gly Ala Cys Ala Ser Ser
 130 135 140
 Leu Pro Ser Pro Xaa Ser Cys Pro His Ser His Ser Gly Ser Trp Gly
 145 150 155 160
 Thr Trp Ser Gln Gly Arg Pro Cys Ser Ser Thr Glu Val Ala Gly Leu
 165 170 175
 Ala Leu Trp Pro Thr Asp Phe Leu Ser Cys Leu Leu Asp Ala Ser Glu
 180 185 190
 Leu Gln Thr Gln Gly Ser His Gly Phe Ser Phe Thr Pro Thr Gly Phe
 195 200 205
 Ser Ser Asn Arg Lys Val Gly Val Gly Ser Cys Arg Asp Gly Ala Gly
 210 215 220
 Arg Gly Ala Met Gly Gly Leu Phe
 225 230

<210> 4701

<211> 665

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4273

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4701

Asp	Val	His	His	Arg	Ala	Glu	Cys	Arg	Ala	Asp	Arg	His	Arg	Arg	Glu
1				5					10					15	

Xaa	Leu	Tyr	Asp	Met	Phe	Val	Asn	Phe	Pro	Asp	Gln	Pro	Val	Val	Trp
			20					25					30		

Arg	Glu	Ile	Ser	Ile	Ile	Thr	Ser	Ala	Leu	Arg	Asn	Asp	Ser	Gln	Asp
		35					40					45			

Lys	Gln	Thr	Gln	Phe	Leu	Arg	Ser	Leu	Phe	Glu	Thr	Leu	Pro	Gly	Arg
	50					55					60				

Val	Gln	Cys	Glu	Met	Leu	Leu	Lys	Val	Thr	Glu	Gln	Cys	Phe	Asn	Thr
65					70					75					80

Leu	Glu	Arg	Ser	Glu	Met	Leu	Leu	Leu	Leu	Arg	Arg	Phe	Pro	Glu	
				85					90				95		

Thr	Val	Val	Gln	His	Gly	Val	Gly	Leu	Gly	Xaa	Ala	Leu	Leu	Xaa	Ala
			100					105					110		

Glu	Thr	Ile	Xaa	Glu	Gln	Glu	Ser	Pro	Val	Asn	Cys	Phe	Arg	Lys	Leu
		115					120					125			

Phe	Val	Cys	Asp	Val	Leu	Pro	Leu	Ile	Ile	Asn	Asn	His	Asp	Val	Arg
	130					135					140				

Leu	Pro	Ala	Asn	Leu	Leu	Tyr	Lys	Tyr	Leu	Asn	Lys	Ala	Ala	Glu	Phe
145					150					155					160

Tyr	Ile	Asn	Tyr	Val	Thr	Arg	Ser	Thr	Gln	Ile	Glu	Asn	Gln	His	Gln
				165					170						175

4274

Gly Ala Gln Asp Thr Ser Asp Leu Met Ser Pro Ser Lys Arg Ser Ser
 180 185 190
 Gln Lys Tyr Ile Ile Glu Gly Leu Thr Glu Lys Ser Ser Gln Ile Val
 195 200 205
 Asp Pro Trp Glu Arg Leu Phe Lys Ile Leu Asn Val Val Gly Met Arg
 210 215 220
 Cys Glu Trp Gln Met Asp Lys Gly Arg Arg Ser Tyr Gly Asp Ile Leu
 225 230 235 240
 His Arg Met Lys Asp Leu Cys Arg Tyr Met Asn Asn Phe Asp Ser Glu
 245 250 255
 Ala His Ala Lys Tyr Lys Asn Gln Val Val Tyr Ser Thr Met Leu Val
 260 265 270
 Phe Phe Lys Asn Ala Phe Gln Tyr Val Asn Ser Ile Gln Pro Ser Leu
 275 280 285
 Phe Gln Gly Pro Asn Ala Pro Ser Gln Val Pro Leu Val Leu Leu Glu
 290 295 300
 Asp Val Ser Asn Val Tyr Gly Asp Val Glu Ile Asp Arg Asn Lys His
 305 310 315 320
 Ile His Lys Lys Arg Lys Leu Ala Glu Gly Arg Glu Lys Thr Met Ser
 325 330 335
 Ser Asp Asp Glu Asp Cys Ser Ala Lys Gly Arg Asn Arg His Ile Val
 340 345 350
 Val Asn Lys Ala Glu Leu Ala Asn Ser Thr Glu Val Leu Glu Ser Phe
 355 360 365
 Lys Leu Ala Arg Glu Ser Trp Glu Leu Leu Tyr Ser Leu Glu Phe Leu
 370 375 380
 Asp Lys Glu Phe Thr Arg Ile Cys Leu Ala Trp Lys Thr Asp Thr Trp
 385 390 395 400
 Leu Trp Leu Arg Ile Phe Leu Thr Asp Met Ile Ile Tyr Gln Gly Gln
 405 410 415
 Tyr Lys Lys Ala Ile Ala Ser Leu His His Leu Ala Ala Leu Gln Gly
 420 425 430
 Ser Ile Ser Gln Pro Gln Ile Thr Gly Gln Gly Thr Leu Glu His Gln
 435 440 445

4275

Arg Ala Leu Ile Gln Leu Ala Thr Cys His Phe Ala Leu Gly Glu Tyr
 450 455 460

Arg Met Thr Cys Glu Lys Val Leu Asp Leu Met Cys Tyr Met Val Leu
 465 470 475 480

Pro Ile Gln Asp Gly Gly Lys Ser Gln Glu Glu Pro Ser Lys Val Lys
 485 490 495

Pro Lys Phe Arg Lys Gly Ser Asp Leu Lys Leu Leu Pro Cys Thr Ser
 500 505 510

Lys Ala Ile Met Pro Tyr Cys Leu His Leu Met Leu Ala Cys Phe Lys
 515 520 525

Leu Arg Ala Phe Thr Asp Asn Arg Asp Asp Met Ala Leu Gly His Val
 530 535 540

Ile Val Leu Leu Gln Gln Glu Trp Pro Arg Gly Glu Asn Leu Phe Leu
 545 550 555 560

Lys Ala Val Asn Lys Ile Cys Gln Gln Gly Asn Phe Gln Tyr Glu Asn
 565 570 575

Phe Phe Asn Tyr Val Thr Asn Ile Asp Met Leu Glu Glu Phe Ala Tyr
 580 585 590

Leu Arg Thr Gln Glu Gly Gly Lys Ile His Leu Glu Leu Leu Pro Asn
 595 600 605

Gln Gly Met Leu Ile Lys His His Thr Val Thr Arg Gly Ile Thr Lys
 610 615 620

Gly Val Lys Glu Asp Phe Arg Leu Ala Met Glu Arg Gln Val Ser Arg
 625 630 635 640

Cys Gly Glu Asn Leu Met Val Val Leu His Arg Phe Cys Ile Asn Glu
 645 650 655

Lys Ile Leu Leu Leu Gln Thr Leu Thr
 660 665

<210> 4702

<211> 85

<212> PRT

<213> Homo sapiens

<400> 4702

4276

Val Lys Ser Glu Asp Leu Asn Glu Val Thr Pro Lys Leu Ser Gln Ser
 1 5 10 15
 His Val Phe Leu Thr Leu Gly Ile Ser Asn Ser Ile Tyr Thr Ala Phe
 20 25 30
 Phe Lys Cys Asn Phe Gln Arg Cys Leu Leu Pro His Pro Leu Leu Leu
 35 40 45
 Ser Ile Ile Ile Asp Phe Trp Arg Leu Thr Lys Gln Ala Ile Pro Lys
 50 55 60
 Phe Ser Pro Arg Lys Val Ser Trp Ile Lys Trp Phe Leu Arg Thr Leu
 65 70 75 80
 Arg Val Tyr Ile Leu
 85

<210> 4703

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4703

Cys Asn Leu Tyr Ser Trp Arg Asn Lys Ile Phe Ile Trp Asp Tyr Phe
 1 5 10 15
 Leu Gln Pro Phe Asn Lys His Leu Leu Tyr Ala Thr Lys Arg Gln Ala
 20 25 30
 Arg Arg Trp Ala Leu Gln Thr Gln Trp Leu Val Ala Val Trp Thr Trp
 35 40 45
 Ser Leu Leu Ala Trp Asn Pro Ser Leu Pro Asn Met Gln Ser Pro His
 50 55 60
 Leu Lys Ala Ser Leu Cys Pro Phe Ser Asp Ala Leu Phe Arg Asn Ala
 65 70 75 80
 Xaa Pro Leu Tyr Ser Glu Ile Arg Arg His Lys Thr Ser Ser Lys Ser
 85 90 95
 Leu Leu Trp

4277

<210> 4704

<211> 215

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4704

Leu Gly Ala Val Gly Ala Xaa Leu Arg Gly Leu Arg Gly Cys Arg Gly
 1 5 10 15

Ala Arg Gly Ala Gly Gly Lys Ala His Leu Gly Trp Pro Trp Arg Ala
 20 25 30

Gly Gly Asp Met Glu Asp Gly Val Leu Lys Glu Gly Phe Leu Val Lys
 35 40 45

Arg Gly His Ile Val His Asn Trp Lys Ala Arg Trp Phe Ile Leu Arg
 50 55 60

Gln Asn Thr Leu Val Tyr Tyr Lys Leu Glu Gly Gly Arg Arg Val Thr
 65 70 75 80

Pro Pro Lys Gly Arg Ile Leu Leu Asp Gly Cys Thr Ile Thr Cys Pro
 85 90 95

Cys Leu Glu Tyr Glu Asn Arg Pro Leu Leu Ile Lys Leu Lys Thr Gln
 100 105 110

Thr Ser Thr Glu Tyr Phe Leu Glu Ala Cys Ser Arg Glu Glu Arg Asp
 115 120 125

Ala Trp Ala Phe Glu Ile Thr Gly Ala Ile His Ala Gly Gln Pro Gly
 130 135 140

Lys Val Gln Gln Leu His Ser Leu Arg Asn Ser Phe Lys Leu Pro Pro
 145 150 155 160

His Ile Ser Leu His Arg Ile Val Asp Lys Met His Asp Ser Asn Thr
 165 170 175

Gly Ile Arg Ser Ser Pro Asn Met Glu Gln Gly Ser Thr Tyr Lys Lys
 180 185 190

Thr Phe Leu Gly Ser Ser Trp Trp Thr Gly Ser Ser Pro Thr Ala Ser

4278

195 200 205
 Arg Ala Ala Val Trp Arg Arg
 210 215

<210> 4705
 <211> 112
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4705
 Asp Leu Pro Pro Leu Leu Val Phe Xaa Ala Val Lys Thr Leu Ser Thr
 1 5 10 15
 Val Thr Tyr Phe Leu Ser Gln Ala Ala Ser His Leu Val Pro Cys Ala
 20 25 30
 Asp Ser Ser Thr Val Ala Arg Ile Gln Tyr Glu Ser Arg Gly Asp Arg
 35 40 45
 Arg Met Val Gly Ala Ala Gly Phe Ser Thr Tyr Pro Ser His Gln Gly
 50 55 60
 Pro Asp Ala Leu Xaa Pro Ala Pro Ser Ala His Pro Cys Ala Gln Leu
 65 70 75 80
 Glu Gly Cys Met Ala Arg Ser Pro Leu Phe Arg Trp Val Glu Thr Leu
 85 90 95
 Met Ile Pro Ala Pro Pro Xaa Arg Ala Pro Ala Thr Glu Gln Ala Leu
 100 105 110

4279

<210> 4706

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4706

Gln Ser Arg His Gln Leu Ala Trp Leu Leu Gly Met Ala Ile Gly Gly
 1 5 10 15

Ser Xaa Cys Gly Pro Leu Leu Ala Asn Cys Met Gln Pro Pro Thr Leu
 20 25 30

Arg Met Phe Ala Trp Ala Glu Asn Ala Glu Thr Leu Trp Pro Asp Leu
 35 40 45

Thr Val Ser Thr Trp Gln Trp Ala Leu Trp Thr Gln His Phe Ser
 50 55 60

<210> 4707

<211> 578

<212> PRT

<213> Homo sapiens

<400> 4707

Pro Thr Ala Ser Ala Gly Ala Arg Trp Ser His Lys Thr Ala Ser Val
 1 5 10 15

Leu Gln Ser Val Ser Leu Glu Val Thr Arg Ala Thr Ala Gly Met Val
 20 25 30

Leu Ala Glu Leu Tyr Val Ser Asp Arg Glu Gly Ser Asp Ala Thr Gly
 35 40 45

Asp Gly Thr Lys Glu Lys Pro Phe Lys Thr Gly Leu Lys Ala Leu Met
 50 55 60

Thr Val Gly Lys Glu Pro Phe Pro Thr Ile Tyr Val Asp Ser Gln Lys
 65 70 75 80

Glu Asn Glu Arg Trp Asn Val Ile Ser Lys Ser Gln Leu Lys Asn Ile
 85 90 95

4280

Lys Lys Met Trp His Arg Glu Gln Met Lys Ser Glu Ser Arg Glu Lys
 100 105 110

Lys Glu Ala Glu Asp Ser Leu Arg Arg Glu Lys Asn Leu Glu Glu Ala
 115 120 125

Lys Lys Ile Thr Ile Lys Asn Asp Pro Ser Leu Pro Glu Pro Lys Cys
 130 135 140

Val Lys Ile Gly Ala Leu Glu Gly Tyr Arg Gly Gln Arg Val Lys Val
 145 150 155 160

Phe Gly Trp Val His Arg Leu Arg Arg Gln Gly Lys Asn Leu Met Phe
 165 170 175

Leu Val Leu Arg Asp Gly Thr Gly Tyr Leu Gln Cys Val Leu Ala Asp
 180 185 190

Glu Leu Cys Gln Cys Tyr Asn Gly Val Leu Leu Ser Thr Glu Ser Ser
 195 200 205

Val Ala Val Tyr Gly Met Leu Asn Leu Thr Pro Lys Gly Lys Gln Ala
 210 215 220

Pro Gly Gly His Glu Leu Ser Cys Asp Phe Trp Glu Leu Ile Gly Leu
 225 230 235 240

Ala Pro Ala Gly Gly Ala Asp Asn Leu Ile Asn Glu Glu Ser Asp Val
 245 250 255

Asp Val Gln Leu Asn Asn Arg His Met Met Ile Arg Gly Glu Asn Met
 260 265 270

Ser Lys Ile Leu Lys Ala Arg Ser Met Val Thr Arg Cys Phe Arg Asp
 275 280 285

His Phe Phe Asp Arg Gly Tyr Tyr Glu Val Thr Pro Pro Thr Leu Val
 290 295 300

Gln Thr Gln Val Glu Gly Gly Ala Thr Leu Phe Lys Leu Asp Tyr Phe
 305 310 315 320

Gly Glu Glu Ala Phe Leu Thr Gln Ser Ser Gln Leu Tyr Leu Glu Thr
 325 330 335

Cys Leu Pro Ala Leu Gly Asp Val Phe Cys Ile Ala Gln Ser Tyr Arg
 340 345 350

Ala Glu Gln Ser Arg Thr Arg Arg His Leu Ala Glu Tyr Thr His Val
 355 360 365

4281

Glu Ala Glu Cys Pro Phe Leu Thr Phe Asp Asp Leu Leu Asn Arg Leu
 370 375 380
 Glu Asp Leu Val Cys Asp Val Val Asp Arg Ile Leu Lys Ser Pro Ala
 385 390 395 400
 Gly Ser Ile Val His Glu Leu Asn Pro Asn Phe Gln Pro Pro Lys Arg
 405 410 415
 Pro Phe Lys Arg Met Asn Tyr Ser Asp Ala Ile Val Trp Leu Lys Glu
 420 425 430
 His Asp Val Lys Lys Glu Asp Gly Thr Phe Tyr Glu Phe Gly Glu Asp
 435 440 445
 Ile Pro Glu Ala Pro Glu Arg Leu Met Thr Asp Thr Ile Asn Glu Pro
 450 455 460
 Ile Leu Leu Cys Arg Phe Pro Val Glu Ile Lys Ser Phe Tyr Met Gln
 465 470 475 480
 Arg Cys Pro Glu Asp Ser Arg Leu Thr Glu Ser Val Asp Val Leu Met
 485 490 495
 Pro Asn Val Gly Glu Ile Val Gly Gly Ser Met Arg Ile Phe Asp Ser
 500 505 510
 Glu Glu Ile Leu Ala Gly Tyr Lys Arg Glu Gly Ile Asp Pro Thr Pro
 515 520 525
 Tyr Tyr Trp Tyr Thr Asp Gln Arg Lys Tyr Gly Thr Cys Pro His Gly
 530 535 540
 Gly Tyr Gly Leu Gly Leu Glu Arg Phe Leu Thr Trp Ile Leu Asn Arg
 545 550 555 560
 Tyr His Ile Arg Asp Val Cys Leu Tyr Pro Arg Phe Val Gln Arg Cys
 565 570 575
 Thr Pro

<210> 4708

<211> 153

<212> PRT

<213> Homo sapiens

<220>

4282

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4708

Pro Leu Asn Gly Leu Leu Gly Gly Leu Asn Gly Ala Ala Ala Pro Asn
 1 5 10 15

Pro Ala Ser Leu Ser Gln Ala Gly Gly Ala Pro Thr Leu Gln Leu Pro
 20 25 30

Gly Cys Leu Asn Ser Leu Thr Glu Gln Gln Arg His Leu Leu Gln Gln
 35 40 45

Gln Glu Gln Gln Leu Gln Gln Leu Gln Gln Leu Leu Ala Ser Pro Gln
 50 55 60

Leu Thr Pro Glu His Gln Thr Val Val Tyr Gln Met Ile Gln Gln Ile
 65 70 75 80

Gln Gln Lys Arg Glu Leu Gln Arg Leu Gln Met Ala Gly Gly Ser Gln
 85 90 95

Leu Pro Met Ala Ser Leu Leu Ala Xaa Xaa Ser Thr Pro Leu Leu Ser
 100 105 110

Ala Gly Thr Pro Gly Leu Leu Pro Thr Xaa Ser Ala Pro Pro Leu Leu
 115 120 125

Pro Ala Gly Ala Leu Xaa Ala Pro Ser Leu Gly Asn Asn Thr Ser Leu
 130 135 140

Met Ala Ala Ala Ala Ala Ala Gln Gln
 145 150

4283

<210> 4709

<211> 77

<212> PRT

<213> Homo sapiens

<400> 4709

Thr Cys Tyr Ile Leu Pro Lys Thr Ala Pro Leu Glu Cys Arg Ala Pro
1 5 10 15

Leu Arg Ser Pro Ser Pro Leu Gly Arg Leu Gln Val Leu Pro Arg Ser
20 25 30

Pro Leu His Val His Thr His Asn Ser Gly Lys Glu Val Leu Gly Leu
35 40 45

Gln Val Gln Arg Ser Arg Ser Gly Thr Gly Pro Ala Cys Ser Gln Ala
50 55 60

Gly Ser Gly Ala Val Gln Gly Gly Asn Trp Cys Ile Phe
65 70 75

<210> 4710

<211> 172

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4710

Leu Glu Pro Leu Gly Leu Glu Ser Gly Arg Gly Leu Pro Ser Gln Pro

4284

1	5	10	15
Leu Ser Phe Leu Pro Arg Pro Gln Glu Leu Leu Gln Thr Gln Asp Phe	20	25	30
Ser Lys Phe Gln Ala Leu Lys Pro Lys Leu Leu Asp Thr Val Asp Asp	35	40	45
Met Leu Ala Asn Asp Ile Ala Arg Leu Met Val Met Val Arg Gln Glu	50	55	60
Glu Ser Leu Met Pro Xaa Gln Val Val Lys Gly Gly Ala Phe Xaa Gly	65	70	75
Thr Met Asn Gly Pro Phe Gly His Gly Tyr Gly Glu Gly Ala Gly Glu	85	90	95
Gly Ile Asp Asp Val Glu Trp Val Val Gly Lys Asp Lys Pro Thr Tyr	100	105	110
Asp Glu Ile Phe Tyr Thr Leu Ser Pro Val Asn Gly Lys Ile Thr Gly	115	120	125
Ala Asn Ala Lys Xaa Glu Met Val Lys Val Gln Ala Ser Gln His Arg	130	135	140
Ala Lys Gly Lys Ile Trp Lys Leu Ala Asp Trp Thr Arg Thr Gly Leu	145	150	155
Leu Asp Asp Lys Glu Xaa Ala Leu Gly Asn His Leu	165	170	

<210> 4711

<211> 193

<212> PRT

<213> Homo sapiens

<400> 4711

Leu Gln Ala Arg Leu Leu Ser Ala Lys Gly Glu Ile Trp Met Ala Ser	1	5	10	15
Thr Ser Tyr Asp Tyr Cys Arg Val Pro Met Glu Asp Gly Asp Lys Arg	20	25	30	
Cys Lys Leu Leu Leu Gly Ile Gly Ile Leu Val Leu Leu Ile Ile Val	35	40	45	
Ile Leu Gly Val Pro Leu Ile Ile Phe Thr Ile Lys Ala Asn Ser Glu	50	55	60	

4285

Ala Cys Arg Asp Gly Leu Arg Ala Val Met Glu Cys Arg Asn Val Thr
 65 70 75 80
 His Leu Leu Gln Gln Glu Leu Thr Glu Ala Gln Lys Gly Phe Gln Asp
 85 90 95
 Val Glu Ala Gln Ala Ala Thr Cys Asn His Thr Val Met Ala Leu Met
 100 105 110
 Ala Ser Leu Asp Ala Glu Lys Ala Gln Gly Gln Lys Lys Val Glu Glu
 115 120 125
 Leu Glu Gly Glu Ile Thr Thr Leu Asn His Lys Leu Gln Asp Ala Ser
 130 135 140
 Ala Glu Val Glu Arg Leu Arg Arg Glu Asn Gln Val Leu Ser Val Arg
 145 150 155 160
 Ile Ala Asp Lys Lys Tyr Tyr Pro Ser Ser Gln Asp Ser Ser Ser Ala
 165 170 175
 Ala Ala Pro Gln Leu Leu Ile Val Leu Leu Gly Leu Ser Ala Leu Leu
 180 185 190
 Gln

<210> 4712

<211> 69

<212> PRT

<213> Homo sapiens

<400> 4712

Leu Glu Gly Ala Leu Thr Arg Thr Glu His Trp Ser Asn Asn Leu Ala
 1 5 10 15
 Thr Phe Pro Trp Lys Arg Ser Ala Arg Ser Gln Ile Arg Arg Asp Ala
 20 25 30
 Pro Ala Gly Lys Gly Gly Gly Cys Lys Thr Arg Ala Val Ser Leu Gly
 35 40 45
 Arg Lys Ala Val Val Ser Pro Gln Gly Val Gln Leu Cys Gly Thr His
 50 55 60
 Thr Tyr Arg Ser Lys
 65

4286

<210> 4713

<211> 205

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4713

Val	Lys	Thr	Pro	Pro	Arg	Val	Leu	Thr	Leu	Ser	Glu	Arg	Pro	Leu	Asp
1				5					10					15	

Phe	Leu	Asp	Leu	Glu	Arg	Pro	Pro	Thr	Thr	Pro	Gln	Asn	Glu	Glu	Ile
			20					25					30		

Arg	Ala	Val	Gly	Arg	Leu	Lys	Arg	Glu	Arg	Ser	Met	Ser	Glu	Asn	Ala
		35					40					45			

Val	Arg	Gln	Asn	Gly	Gln	Leu	Val	Arg	Asn	Asp	Ser	Leu	Val	Thr	Pro
	50					55				60					

Ser	Pro	Gln	Gln	Ala	Arg	Val	Cys	Pro	Pro	His	Met	Leu	Pro	Glu	Asp
65					70					75					80

Gly	Ala	Asn	Leu	Ser	Ser	Ala	Arg	Gly	Ile	Leu	Ser	Leu	Ile	Gln	Ser
				85					90					95	

Ser	Thr	Arg	Arg	Ala	Tyr	Gln	Gln	Ile	Leu	Asp	Val	Leu	Asp	Glu	Asn
			100					105				110			

Arg	Arg	Pro	Val	Leu	Arg	Gly	Gly	Ser	Xaa	Ala	Ala	Thr	Ser	Asn	Pro
		115					120					125			

His	His	Asp	Asn	Val	Arg	Tyr	Gly	Ile	Ser	Asn	Ile	Asp	Thr	Thr	Ile
	130					135					140				

Glu	Gly	Thr	Ser	Asp	Asp	Leu	Thr	Val	Val	Asp	Ala	Ala	Ser	Leu	Arg
145					150					155					160

Arg	Gln	Ile	Ile	Lys	Leu	Asn	Arg	Arg	Leu	Gln	Leu	Leu	Glu	Glu	Glu
				165					170					175	

Asn	Lys	Glu	Arg	Ala	Lys	Arg	Glu	Met	Val	Met	Tyr	Ser	Ile	Thr	Val
			180					185					190		

Ala	Phe	Trp	Leu	Leu	Asn	Ser	Trp	Leu	Trp	Phe	Arg	Arg
		195					200					205

4287

<210> 4714

<211> 408

<212> PRT

<213> Homo sapiens

<400> 4714

Ile Pro Leu Pro Phe Gly Lys Pro Gln Pro Gln Ser Arg Arg Arg Pro
 1 5 10 15

Leu Arg Pro Pro Ser Ala Ser Ser Ala Ser Arg Pro Ala Arg Gly Ser
 20 25 30

Leu Arg Arg Ala Met Ala Thr Ser Pro Gln Lys Ser Pro Ser Val Pro
 35 40 45

Lys Ser Pro Thr Pro Lys Ser Pro Pro Ser Arg Lys Lys Asp Asp Ser
 50 55 60

Phe Leu Gly Lys Leu Gly Gly Thr Leu Ala Arg Arg Lys Lys Ala Lys
 65 70 75 80

Glu Val Ser Glu Leu Gln Glu Glu Gly Met Asn Ala Ile Asn Leu Pro
 85 90 95

Leu Ser Pro Ile Pro Phe Glu Leu Asp Pro Glu Asp Thr Met Leu Glu
 100 105 110

Glu Asn Glu Val Arg Thr Met Val Asp Pro Asn Ser Arg Ser Thr Pro
 115 120 125

Lys Leu Gln Glu Leu Met Lys Val Leu Ile Asp Trp Ile Asn Asp Val
 130 135 140

Leu Val Gly Glu Arg Ile Ile Val Lys Asp Leu Ala Glu Asp Leu Tyr
 145 150 155 160

Asp Gly Gln Val Leu Gln Lys Leu Phe Glu Lys Leu Glu Ser Glu Lys
 165 170 175

Leu Asn Val Ala Glu Val Thr Gln Ser Glu Ile Ala Gln Lys Gln Lys
 180 185 190

Leu Gln Thr Val Leu Glu Lys Ile Asn Glu Thr Leu Lys Leu Pro Pro
 195 200 205

Arg Ser Ile Lys Trp Asn Val Asp Ser Val His Ala Lys Ser Leu Val
 210 215 220

4288

Ala Ile Leu His Leu Leu Val Ala Leu Ser Gln Tyr Phe Arg Ala Pro
 225 230 235 240
 Ile Arg Leu Pro Asp His Val Ser Ile Gln Val Val Val Val Gln Lys
 245 250 255
 Arg Glu Gly Ile Leu Gln Ser Arg Gln Ile Gln Glu Glu Ile Thr Gly
 260 265 270
 Asn Thr Glu Ala Leu Ser Gly Arg His Glu Arg Asp Ala Phe Asp Thr
 275 280 285
 Leu Phe Asp His Ala Pro Asp Lys Leu Asn Val Val Lys Lys Thr Leu
 290 295 300
 Ile Thr Phe Val Asn Lys His Leu Asn Lys Leu Asn Leu Glu Val Thr
 305 310 315 320
 Glu Leu Glu Thr Gln Phe Ala Asp Gly Val Tyr Leu Val Leu Leu Met
 325 330 335
 Gly Leu Leu Glu Gly Tyr Phe Val Pro Leu His Ser Phe Phe Leu Thr
 340 345 350
 Pro Asp Ser Phe Glu Gln Lys Val Leu Asn Val Ser Phe Ala Phe Glu
 355 360 365
 Leu Met Gln Asp Gly Gly Leu Glu Lys Pro Lys Pro Arg Pro Glu Asp
 370 375 380
 Ile Val Asn Cys Asp Leu Lys Ser Thr Leu Arg Val Leu Tyr Asn Leu
 385 390 395 400
 Phe Thr Lys Tyr Arg Asn Val Glu
 405

<210> 4715

<211> 314

<212> PRT

<213> Homo sapiens

<400> 4715

Asp Pro Tyr Ser Gln Ser Ala Thr Ala Phe Asn Glu Met Ile Gln Glu
 1 5 10 15
 Asn Gly Tyr Asn Phe Asp Arg Ser Ser Ser Thr Phe Ser Gly Ile Lys
 20 25 30
 Glu Leu Ala Arg Arg Phe Ala Leu Thr Phe Gly Leu Asp Gln Leu Lys

45

Thr	Arg	Glu	Ala	Ile	Ala	Met	Leu	His	Lys	Asp	Gly	Ile	Glu	Phe	Ala
50						55						60			
Phe	Lys	Glu	Pro	Asn	Pro	Gln	Gly	Glu	Ser	His	Pro	Pro	Leu	Asn	Leu
65					70					75					80
Ala	Phe	Leu	Asp	Ile	Leu	Ser	Glu	Phe	Ser	Ser	Lys	Leu	Leu	Arg	Gln
				85					90					95	
Asp	Lys	Arg	Thr	Val	Tyr	Val	Tyr	Leu	Glu	Lys	Phe	Met	Thr	Phe	Gln
			100					105					110		
Met	Ser	Leu	Arg	Arg	Glu	Asp	Val	Trp	Leu	Pro	Leu	Met	Ser	Tyr	Arg
		115					120					125			
Asn	Ser	Leu	Leu	Ala	Gly	Gly	Asp	Asp	Asp	Thr	Met	Ser	Val	Ile	Ser
130						135					140				
Gly	Ile	Ser	Ser	Arg	Gly	Ser	Thr	Val	Arg	Ser	Lys	Lys	Ser	Lys	Pro
145					150					155					160
Ser	Thr	Gly	Lys	Arg	Lys	Val	Val	Glu	Gly	Met	Gln	Leu	Ser	Leu	Thr
				165					170					175	
Glu	Glu	Ser	Ser	Ser	Ser	Asp	Ser	Met	Trp	Leu	Ser	Arg	Glu	Gln	Thr
			180					185					190		
Leu	His	Thr	Pro	Val	Met	Met	Gln	Thr	Pro	Gln	Leu	Thr	Ser	Thr	Ile
	195						200					205			
Met	Arg	Glu	Pro	Lys	Arg	Leu	Arg	Pro	Glu	Asp	Ser	Phe	Met	Ser	Val
	210					215					220				
Tyr	Pro	Met	Gln	Thr	Glu	His	His	Gln	Thr	Pro	Leu	Asp	Tyr	Asn	Arg
225					230					235					240
Arg	Gly	Thr	Ser	Leu	Met	Glu	Asp	Asp	Glu	Glu	Pro	Ile	Val	Glu	Asp
				245					250					255	
Val	Met	Met	Ser	Ser	Glu	Gly	Arg	Ile	Glu	Asp	Leu	Asn	Glu	Gly	Met
			260					265					270		
Asp	Phe	Asp	Thr	Met	Asp	Ile	Asp	Leu	Pro	Pro	Ser	Lys	Asn	Arg	Arg
	275						280					285			
Glu	Arg	Thr	Glu	Leu	Lys	Pro	Asp	Phe	Phe	Asp	Pro	Ala	Ser	Ile	Met
	290					295					300				
Asp	Glu	Ser	Val	Leu	Gly	Val	Ser	Met	Phe						

4290

305

310

<210> 4716

<211> 287

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4716

Arg Pro Cys Pro Glu Glu Ala Glu Ile Gly Ile Ala Met Gly Ser Gly
 1 5 10 15

Thr Ala Val Ala Lys Thr Ala Ser Glu Met Val Leu Ala Asp Asp Asn
 20 25 30

Phe Ser Thr Ile Val Ala Ala Val Glu Glu Gly Arg Ala Ile Tyr Asn
 35 40 45

Asn Met Lys Gln Phe Ile Arg Tyr Leu Ile Ser Ser Asn Val Gly Glu
 50 55 60

Val Val Cys Ile Phe Leu Thr Ala Ala Leu Gly Leu Pro Glu Ala Leu
 65 70 75 80

Ile Pro Val Gln Leu Leu Trp Val Asn Leu Val Thr Asp Gly Leu Pro
 85 90 95

Ala Thr Ala Leu Gly Phe Asn Pro Pro Asp Leu Asp Ile Met Asp Arg
 100 105 110

Pro Pro Arg Ser Pro Lys Glu Pro Leu Ile Ser Gly Trp Leu Phe Phe
 115 120 125

Arg Tyr Met Ala Ile Gly Gly Tyr Val Gly Ala Ala Thr Val Gly Ala
 130 135 140

Ala Ala Trp Trp Phe Leu Tyr Ala Glu Asp Gly Pro His Val Asn Tyr
 145 150 155 160

Ser Gln Leu Thr His Phe Met Gln Cys Thr Glu Asp Asn Thr His Phe
 165 170 175

Glu Gly Ile Xaa Cys Glu Val Phe Glu Ala Pro Glu Pro Met Thr Met
 180 185 190

4292

<400> 4718

Ala Xaa Asp Pro Ser Arg Val Met Asp Gln His Lys Leu Thr Arg Asp
 1 5 10 15
 Gln Trp Glu Asp Arg Ile Gln Val Trp His Ala Glu His Arg Gly Met
 20 25 30
 Leu Lys Asp Asn Ala Met Leu Glu Tyr Leu Lys Ile Ala Gln Asp Leu
 35 40 45
 Glu Met Tyr Gly Ile Asn Tyr Phe Glu Ile Lys Asn Lys Lys Gly Thr
 50 55 60
 Asp Leu Trp Leu Gly Val Asp Ala Leu Gly Leu Asn Ile Tyr Glu Lys
 65 70 75 80
 Asp Asp Lys Leu Thr Pro Lys Ile Gly Phe Pro Trp Ser Glu Ile Arg
 85 90 95
 Asn Ile Ser Phe Asn Asp Lys Lys Phe Val Ile Lys Pro Ile Asp Lys
 100 105 110
 Lys Ala Pro Asp Phe Val Phe Tyr Ala Pro Arg Leu Arg Ile Asn Lys
 115 120 125
 Arg Ile Leu Gln Leu Cys Met Gly Asn His Glu Leu Tyr Met Arg Arg
 130 135 140
 Arg Lys Pro Asp Thr Ile Glu Val Gln Gln Met Lys Ala Gln Ala Arg
 145 150 155 160
 Glu Glu Lys His Gln Lys Gln Leu Glu Arg Gln Gln Leu Glu Thr Glu
 165 170 175
 Lys Lys Arg Arg Glu Thr Val Glu Arg Glu Lys Glu Gln Met Met Arg
 180 185 190
 Glu Lys Glu Glu Leu Met Leu Arg Leu Gln Asp Tyr Glu Glu Lys Thr
 195 200 205
 Lys Lys Ala Glu Arg Glu Leu Ser Glu Gln Ile Gln Arg Ala Leu Gln
 210 215 220
 Leu Glu Glu Glu Arg Lys Arg Ala Gln Glu Glu Ala Glu Arg Leu Glu
 225 230 235 240
 Ala Asp Arg Met Ala Ala Leu Arg Ala Lys Glu Glu Leu Glu Arg Gln
 245 250 255
 Ala Val Asp Gln Ile Lys Ser Gln Glu Gln Leu Ala Ala Glu Leu Ala

4293

260						265						270					
Glu	Tyr	Thr	Ala	Lys	Ile	Ala	Leu	Leu	Glu	Glu	Ala	Arg	Arg	Arg	Lys		
275						280						285					
Glu	Asp	Glu	Val	Glu	Glu	Trp	Gln	His	Arg	Ala	Lys	Glu	Ala	Gln	Asp		
290						295						300					
Asp	Leu	Val	Lys	Thr	Lys	Glu	Glu	Leu	His	Leu	Val	Met	Thr	Ala	Pro		
305						310						315				320	
Pro	Pro	Pro	Pro	Pro	Pro	Val	Tyr	Glu	Pro	Val	Ser	Tyr	His	Val	Gln		
325						330						335					
Glu	Ser	Leu	Gln	Asp	Glu	Gly	Ala	Glu	Pro	Thr	Gly	Tyr	Ser	Ala	Glu		
340						345						350					
Leu	Ser	Ser	Glu	Gly	Ile	Arg	Asp	Asp	Arg	Asn	Glu	Glu	Lys	Arg	Ile		
355						360						365					
Thr	Glu	Ala	Glu	Lys	Asn	Glu	Arg	Val	Gln	Arg	Gln	Leu	Xaa	Thr	Leu		
370						375						380					
Ser	Ser	Glu	Leu	Ser	Gln	Ala	Arg	Asp	Glu	Asn	Lys	Arg	Thr	His	Asn		
385						390						395				400	
Asp	Ile	Ile	His	Asn	Glu	Asn	Met	Arg	Gln	Gly	Arg	Asp	Lys	Tyr	Lys		
405						410						415					
Thr	Leu	Arg	Gln	Ile	Arg	Gln	Gly	Asn	Thr	Lys	Gln	Arg	Ile	Asp	Glu		
420						425						430					
Phe	Glu	Ala	Leu														
435																	

<210> 4719

<211> 173

<212> PRT

<213> Homo sapiens

<400> 4719

Leu Gln Val Val Gln Ala Asp Ile Ala Ser Ile Asp Ser Asp Ala Val
1 5 10 15

Val His Pro Thr Asn Thr Asp Phe Tyr Ile Gly Gly Glu Val Gly Asn
20 25 30

Thr Leu Glu Lys Lys Gly Gly Lys Glu Phe Val Glu Ala Val Leu Glu
35 40 45

4294

Leu	Arg	Lys	Lys	Asn	Gly	Pro	Leu	Glu	Val	Ala	Gly	Ala	Ala	Val	Ser	
50						55						60				
Ala	Gly	His	Gly	Leu	Pro	Ala	Lys	Phe	Val	Ile	His	Cys	Asn	Ser	Pro	
65						70						75			80	
Val	Trp	Gly	Ala	Asp	Lys	Cys	Glu	Glu	Leu	Leu	Glu	Lys	Thr	Val	Lys	
			85						90						95	
Asn	Cys	Leu	Ala	Leu	Ala	Asp	Asp	Lys	Lys	Leu	Lys	Ser	Ile	Ala	Phe	
			100						105						110	
Pro	Ser	Ile	Gly	Ser	Gly	Arg	Asn	Gly	Phe	Pro	Lys	Gln	Thr	Ala	Ala	
			115						120						125	
Gln	Leu	Ile	Leu	Lys	Ala	Ile	Ser	Ser	Tyr	Phe	Val	Ser	Thr	Met	Ser	
130						135						140				
Ser	Ser	Ile	Lys	Thr	Val	Tyr	Phe	Val	Leu	Phe	Asp	Ser	Glu	Ser	Ile	
145						150						155			160	
Gly	Ile	Tyr	Val	Gln	Glu	Met	Ala	Lys	Leu	Asp	Ala	Asn				
			165						170							

<210> 4720

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4720

Arg Gly Asp Pro Phe Pro Leu Val Gly Phe Gly Ser Cys Val Ser Ser
1 5 10 15

4295

Leu Cys Lys Thr Leu His Gln Gly Tyr Pro Gly His Glu Gly Val Pro
 20 25 30
 Pro Val Pro Val Tyr Phe Cys Thr Arg Thr Ser Asn Lys Thr Gly Arg
 35 40 45
 Cys Leu Gly Asn Cys His Gly Val Arg Glu Arg Asp Ala Phe Tyr Ser
 50 55 60
 Xaa Gly Val Asp Asp Xaa Thr Xaa Val Ile Asn Cys Ile Cys Trp Glu
 65 70 75 80
 Lys Val Glu Tyr

<210> 4721
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 4721
 Arg Gly Gly Gly Cys Ser Glu Pro Arg Ser Arg His Cys Thr Pro Ala
 1 5 10 15
 Trp Gly Thr Arg Val Arg Leu Ser Leu Lys Lys Lys Lys Lys Glu Lys
 20 25 30
 Lys Ile Arg Asp Ile Val His Ile Pro Leu Leu Cys Leu His Arg Cys
 35 40 45
 Pro

<210> 4722
 <211> 267
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (88)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (90)
 <223> Xaa equals any of the naturally occurring L-amino acids

4296

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (173)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4722

Asn	Asn	Leu	Asn	Ser	Val	Leu	Ala	Glu	Arg	Leu	Glu	Lys	Trp	Leu	Gln
1				5					10					15	

Leu	Met	Leu	Met	Trp	His	Pro	Arg	Gln	Arg	Gly	Thr	Asp	Pro	Thr	Tyr
			20					25					30		

Gly	Pro	Asn	Gly	Cys	Phe	Lys	Ala	Leu	Asp	Asp	Ile	Leu	Asn	Leu	Lys
		35					40					45			

Leu	Val	His	Ile	Leu	Asn	Met	Val	Thr	Gly	Thr	Ile	His	Thr	Tyr	Pro
	50					55					60				

Val	Thr	Glu	Asp	Glu	Ser	Leu	Gln	Ser	Leu	Lys	Ala	Arg	Ile	Gln	Gln
65					70					75				80	

Asp	Thr	Gly	Ile	Pro	Glu	Glu	Xaa	Gln	Xaa	Leu	Leu	Gln	Glu	Xaa	Gly
				85				90						95	

Leu	Ala	Leu	Ile	Pro	Asp	Lys	Pro	Ala	Thr	Gln	Cys	Ile	Ser	Asp	Gly
		100						105					110		

Lys	Leu	Asn	Glu	Gly	His	Thr	Leu	Asp	Met	Asp	Leu	Val	Phe	Leu	Phe
		115					120					125			

4297

Asp Asn Ser Lys Ile Thr Tyr Glu Thr Gln Ile Xaa Pro Arg Pro Gln
 130 135 140
 Pro Glu Ser Val Ser Cys Ile Leu Gln Glu Pro Lys Arg Asn Leu Ala
 145 150 155 160
 Phe Xaa Gln Leu Xaa Lys Val Trp Gly Gln Val Trp Xaa Ser Ile Gln
 165 170 175
 Thr Leu Lys Glu Asp Cys Asn Arg Leu Gln Gln Gly Gln Arg Ala Ala
 180 185 190
 Met Met Asn Leu Leu Arg Asn Asn Ser Cys Leu Ser Lys Met Lys Asn
 195 200 205
 Ser Met Ala Ser Met Ser Gln Gln Leu Lys Ala Lys Leu Asp Phe Phe
 210 215 220
 Lys Thr Ser Ile Gln Ile Asp Leu Glu Lys Tyr Ser Glu Gln Thr Glu
 225 230 235 240
 Phe Gly Ile Thr Ser Asp Lys Leu Leu Leu Ala Trp Arg Glu Met Glu
 245 250 255
 Gln Ala Val Glu Leu Cys Gly Arg Glu Asn Glu
 260 265

<210> 4723
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 4723
 His Phe Leu Thr Cys Gly Arg Glu Lys Leu Pro Asn Phe Phe Phe Leu
 1 5 10 15
 Leu Leu Asn Cys Asn Ile Val Glu Asp Phe Phe Phe Leu Phe Ser Leu
 20 25 30
 Ile Gly Ala Phe Cys Thr Gly Phe Val Cys Val Cys Val Cys Val Cys
 35 40 45
 Ala Arg Ala Cys Val Leu Ile Cys Phe Leu Ile His Ser Tyr Pro Leu
 50 55 60
 Cys Leu Ser Tyr His Cys Leu Pro Gly Tyr Leu Lys Gln Val His Thr
 65 70 75 80
 Phe Glu Lys Lys Lys Lys Cys Cys Leu Lys Asn Val Phe Ser Cys Cys

4298

85

90

95

Ser Lys Tyr Phe Ala
100

<210> 4724

<211> 163

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4724

Arg Ser Pro Asp Ser Ser Gln Val Leu Gly Ala Arg Asp Ala Asp Ser
1 5 10 15

Ser Ser Gly Cys Phe Ser Arg Cys Ser Trp Ala Leu Ala Ser Asp Gly
20 25 30

Ala Leu Arg Gly Cys Phe Pro Gly Ala Arg Phe Cys Ser Thr Thr Ser
35 40 45

Xaa Glu Gly Asn Thr Thr Phe Thr Gly Ser Ala Ala Ala Pro Gly Pro
50 55 60

Ser Ala Ser Arg Gln Gly Pro Lys Pro Gly Pro Pro Ala Ala Thr Val
65 70 75 80

Ala Arg Gln Thr Ser Arg Val Ser Pro Ala Pro Pro Cys Ser Leu Arg
85 90 95

Pro Gly Leu Arg His Glu Ser Ala Pro Ser Gly Ile Gly Asp Val Thr
100 105 110

Ala Arg Gly Ala Leu Arg Gly Leu Gly Cys Thr Val Arg Val Thr Ala
115 120 125

Ala Cys Ala Gly Asn His Gly Cys Ser Gln Met Leu Ala Leu Arg Asn
130 135 140

Ser Lys Trp Glu Thr Ala Ser Arg Arg Gly Val Leu Thr Gly Arg Leu
145 150 155 160

Gly Ile Lys

4299

<210> 4725

<211> 91

<212> PRT

<213> Homo sapiens

<400> 4725

Glu Ser Leu Trp Ala Phe Cys Leu Ser Leu Leu Glu Arg Leu Ala Cys
 1 5 10 15

Cys Ser Leu Leu Tyr Pro Glu Val Cys Leu Trp Asp Phe Ser Pro Val
 20 25 30

Ala Val Glu Thr Arg Arg Pro Thr Leu Phe Glu Thr Gln Met Leu Leu
 35 40 45

Ser Leu Ala Ser Pro Ser Leu Ser Ser Pro Asn Glu Pro Thr Phe Cys
 50 55 60

Thr Ser Thr Arg Met Pro Gly Arg Leu Gly Pro Gln Arg Leu Leu Phe
 65 70 75 80

Gln Asn Leu Trp Lys Pro Arg Leu Asn Val Pro
 85 90

<210> 4726

<211> 72

<212> PRT

<213> Homo sapiens

<400> 4726

Ile Ser Ser His Leu Val Ser Lys Leu Leu Leu Thr Met Val Val Leu
 1 5 10 15

Leu Glu Gln Ser Phe Gln Ala Pro Leu Arg Thr Ile Phe Asn Ser Asp
 20 25 30

Thr Lys Gly Lys Thr Gly Cys Tyr Phe Cys Phe Val Val Gln Leu Val
 35 40 45

Leu Tyr Ser His Met Leu Tyr Ile Leu Asn Ser Pro Val Leu Phe Arg
 50 55 60

Leu Val Asn Arg Thr Ile Ser Met
 65 70

4300

<210> 4727

<211> 251

<212> PRT

<213> Homo sapiens

<400> 4727

Gly Gly Leu Ala Trp Arg Ala Leu Arg Thr Ser Gly Thr Leu Leu Arg
 1 5 10 15

Val Glu Arg Leu Leu Leu Glu Asp Tyr Cys Pro Glu Glu Lys Met Phe
 20 25 30

Gly Phe His Lys Pro Lys Met Tyr Arg Ser Ile Glu Gly Cys Cys Ile
 35 40 45

Cys Arg Ala Lys Ser Ser Ser Ser Arg Phe Thr Asp Ser Lys Arg Tyr
 50 55 60

Glu Lys Asp Phe Gln Ser Cys Phe Gly Leu His Glu Thr Arg Ser Gly
 65 70 75 80

Asp Ile Cys Asn Ala Cys Val Leu Leu Val Lys Arg Trp Lys Lys Leu
 85 90 95

Pro Ala Gly Ser Lys Lys Asn Trp Asn His Val Val Asp Ala Arg Ala
 100 105 110

Gly Pro Ser Leu Lys Thr Thr Leu Lys Pro Lys Lys Val Lys Thr Leu
 115 120 125

Ser Gly Asn Arg Ile Lys Ser Asn Gln Ile Ser Lys Leu Gln Lys Glu
 130 135 140

Phe Lys Arg His Asn Ser Asp Ala His Ser Thr Thr Ser Ser Ala Ser
 145 150 155 160

Pro Ala Gln Ser Pro Cys Tyr Ser Asn Gln Ser Asp Asp Gly Ser Asp
 165 170 175

Thr Glu Met Ala Ser Gly Ser Asn Arg Thr Pro Val Phe Ser Phe Leu
 180 185 190

Asp Leu Thr Tyr Trp Lys Arg Gln Lys Ile Cys Cys Gly Ile Ile Tyr
 195 200 205

Lys Gly Arg Phe Gly Glu Val Leu Ile Asp Thr His Leu Phe Lys Pro
 210 215 220

Cys Cys Ser Asn Lys Lys Ala Ala Ala Glu Lys Pro Glu Glu Gln Gly
 225 230 235 240

4301

Pro Glu Pro Leu Pro Ile Ser Thr Gln Glu Trp
 245 250

<210> 4728

<211> 45

<212> PRT

<213> Homo sapiens

<400> 4728

Cys Cys Asp Ala Cys Phe Gln Asp Pro Tyr Gly Val Ala Val Gly Gly
 1 5 10 15

Thr Val Gly His Cys Leu Cys Thr Gly Leu Ala Val Ile Gly Gly Arg
 20 25 30

Met Ile Ala Gln Lys Ile Ser Val Arg Thr Gly Lys Ser
 35 40 45

<210> 4729

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4729

Leu Pro Ala Gly Met Ser Ala Lys Met Leu Gly Gly Val Phe Lys Ile
 1 5 10 15

Asp Trp Ile Cys Arg Arg Glu Leu Pro Phe Thr Lys Ser Ala His Leu
 20 25 30

Thr Asn Pro Trp Asn Glu His Lys Pro Val Lys Ile Gly Arg Asp Gly
 35 40 45

4302

Gln Glu Ile Glu Leu Glu Cys Gly Thr Gln Leu Cys Leu Leu Phe Pro
 50 55 60
 Pro Asp Glu Ser Ile Asp Leu Tyr Gln Val Ile His Lys Met Arg His
 65 70 75 80
 Lys Arg Arg Met His Ser Gln Pro Arg Ser Arg Gly Arg Pro Ser Arg
 85 90 95
 Glu Asn Gln Ser Xaa Xaa Xaa Glu Gly Val Asp Gln Lys Ile Met Ile
 100 105 110
 Phe Ile Thr Ala Glu Arg Asn Gln Gly Leu Thr Ile Pro Leu Ser Phe
 115 120 125
 Thr Arg Asp Gln Gly Ile
 130

<210> 4730

<211> 193

<212> PRT

<213> Homo sapiens

<400> 4730

Leu Val Pro Pro Lys Ser Trp Thr Ile Gln Val Gly Leu Val Ser Leu
 1 5 10 15
 Leu Asp Asn Pro Ala Pro Ser His Leu Val Glu Lys Ile Val Tyr His
 20 25 30
 Ser Lys Tyr Lys Pro Lys Arg Leu Gly Asn Asp Ile Ala Leu Met Lys
 35 40 45
 Leu Ala Gly Pro Leu Thr Phe Asn Glu Met Ile Gln Pro Val Cys Leu
 50 55 60
 Pro Asn Ser Glu Glu Asn Phe Pro Asp Gly Lys Val Cys Trp Thr Ser
 65 70 75 80
 Gly Trp Gly Ala Thr Glu Asp Gly Ala Gly Asp Ala Ser Pro Val Leu
 85 90 95
 Asn His Ala Ala Val Pro Leu Ile Ser Asn Lys Ile Cys Asn His Arg
 100 105 110
 Asp Val Tyr Gly Gly Ile Ile Ser Pro Ser Met Leu Cys Ala Gly Tyr
 115 120 125

4303

Leu Thr Gly Gly Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu
 130 135 140

Val Cys Gln Glu Arg Arg Leu Trp Lys Leu Val Gly Ala Thr Ser Phe
 145 150 155 160

Gly Ile Gly Cys Ala Glu Val Asn Lys Pro Gly Val Tyr Thr Arg Val
 165 170 175

Thr Ser Phe Leu Asp Trp Ile His Glu Gln Met Glu Arg Asp Leu Lys
 180 185 190

Thr

<210> 4731

<211> 426

<212> PRT

<213> Homo sapiens

<400> 4731

Cys His Arg Gln Arg Arg Cys Leu Leu Pro Ser Asp Cys Glu Lys Thr
 1 5 10 15

Ile Thr Gly Pro Arg Asn Cys His Ala Asn Arg Leu Pro Cys Ile Tyr
 20 25 30

Leu Val Asp Ser Gly Gly Ala Tyr Leu Pro Arg Gln Ala Asp Val Phe
 35 40 45

Pro Asp Arg Asp His Phe Gly Arg Thr Phe Tyr Asn Gln Ala Ile Met
 50 55 60

Ser Ser Lys Asn Ile Ala Gln Ile Ala Val Val Met Gly Ser Cys Thr
 65 70 75 80

Ala Gly Gly Ala Tyr Val Pro Ala Met Ala Asp Glu Asn Ile Ile Val
 85 90 95

Arg Lys Gln Gly Thr Ile Phe Leu Ala Gly Pro Pro Leu Val Lys Ala
 100 105 110

Ala Thr Gly Glu Glu Val Ser Ala Glu Asp Leu Gly Gly Ala Asp Leu
 115 120 125

His Cys Arg Lys Ser Gly Val Ser Asp His Trp Ala Leu Asp Asp His
 130 135 140

His Ala Leu His Leu Thr Arg Lys Val Val Arg Asn Leu Asn Tyr Gln

4304

145		150		155		160
Lys Lys Leu Asp Val Thr Ile Glu Pro Ser Glu Glu Pro Leu Phe Pro						
	165		170		175	
Ala Asp Glu Leu Tyr Gly Ile Val Gly Ala Asn Leu Lys Arg Ser Phe						
	180		185		190	
Asp Val Arg Glu Val Ile Ala Arg Ile Val Asp Gly Ser Arg Phe Thr						
	195		200		205	
Glu Phe Lys Ala Phe Tyr Gly Asp Thr Leu Val Thr Gly Phe Ala Arg						
	210		215		220	
Ile Phe Gly Tyr Pro Val Gly Ile Val Gly Asn Asn Gly Val Leu Phe						
	225		230		235	
Ser Glu Ser Ala Lys Lys Gly Thr His Phe Val Gln Leu Cys Cys Gln						
	245		250		255	
Arg Asn Ile Pro Leu Leu Phe Leu Gln Asn Ile Thr Gly Phe Met Val						
	260		265		270	
Gly Arg Glu Tyr Glu Ala Glu Gly Ile Ala Lys Asp Gly Ala Lys Met						
	275		280		285	
Val Ala Ala Val Ala Cys Ala Gln Val Pro Lys Ile Thr Leu Ile Ile						
	290		295		300	
Gly Gly Ser Tyr Gly Ala Gly Asn Tyr Gly Met Cys Gly Arg Ala Tyr						
	305		310		315	
Ser Pro Arg Phe Leu Tyr Ile Trp Pro Asn Ala Arg Ile Ser Val Met						
	325		330		335	
Gly Gly Glu Gln Ala Ala Asn Val Leu Ala Thr Ile Thr Lys Asp Gln						
	340		345		350	
Arg Ala Arg Glu Gly Lys Gln Phe Ser Ser Ala Asp Glu Ala Ala Leu						
	355		360		365	
Lys Glu Pro Ile Ile Lys Lys Phe Glu Glu Glu Gly Asn Pro Tyr Tyr						
	370		375		380	
Ser Ser Ala Arg Val Trp Asp Asp Gly Ile Ile Asp Pro Ala Asp Thr						
	385		390		395	
Arg Leu Val Leu Gly Leu Ser Phe Ser Ala Ala Leu Asn Ala Pro Ile						
	405		410		415	
Glu Lys Thr Asp Phe Gly Ile Phe Arg Met						

4305

420

425

<210> 4732

<211> 651

<212> PRT

<213> Homo sapiens

<400> 4732

Tyr Phe Thr Asn Glu Thr Asp Asp Ile Ala Asn Leu Glu Ala Ser Val
 1 5 10 15

Leu Glu Asn Pro Ser His Val Gln Leu Trp Leu Lys Leu Ala Tyr Lys
 20 25 30

Tyr Leu Asn Gln Asn Glu Gly Glu Cys Ser Glu Ser Leu Asp Ser Ala
 35 40 45

Leu Asn Val Leu Ala Arg Ala Leu Glu Asn Asn Lys Asp Asn Pro Glu
 50 55 60

Ile Trp Cys His Tyr Leu Arg Leu Phe Ser Lys Arg Gly Thr Lys Asp
 65 70 75 80

Glu Val Gln Glu Met Cys Glu Thr Ala Val Glu Tyr Ala Pro Asp Tyr
 85 90 95

Gln Ser Phe Trp Thr Phe Leu His Leu Glu Ser Thr Phe Glu Glu Lys
 100 105 110

Asp Tyr Val Cys Glu Arg Met Leu Glu Phe Leu Met Gly Ala Ala Lys
 115 120 125

Gln Glu Thr Ser Asn Ile Leu Ser Phe Gln Leu Leu Glu Ala Leu Leu
 130 135 140

Phe Arg Val Gln Leu His Ile Phe Thr Gly Arg Cys Gln Ser Ala Leu
 145 150 155 160

Ala Ile Leu Gln Asn Ala Leu Lys Ser Ala Asn Asp Gly Ile Val Ala
 165 170 175

Glu Tyr Leu Lys Thr Ser Asp Arg Cys Leu Ala Trp Leu Ala Tyr Ile
 180 185 190

His Leu Ile Glu Phe Asn Ile Leu Pro Ser Lys Phe Tyr Asp Pro Ser
 195 200 205

Asn Asp Asn Pro Ser Arg Ile Val Asn Thr Glu Ser Phe Val Met Pro
 210 215 220

4306

Trp Gln Ala Val Gln Asp Val Lys Thr Asn Pro Asp Met Leu Leu Ala
 225 230 235 240

Val Phe Glu Asp Ala Val Lys Ala Cys Thr Asp Glu Ser Leu Ala Val
 245 250 255

Glu Glu Arg Ile Glu Ala Cys Leu Pro Leu Tyr Thr Asn Met Ile Ala
 260 265 270

Leu His Gln Leu Leu Glu Arg Tyr Glu Ala Ala Met Glu Leu Cys Lys
 275 280 285

Ser Leu Leu Glu Ser Cys Pro Ile Asn Cys Gln Leu Leu Glu Ala Leu
 290 295 300

Val Ala Leu Tyr Leu Gln Thr Asn Gln His Asp Lys Ala Arg Ala Val
 305 310 315 320

Trp Leu Thr Ala Phe Glu Lys Asn Pro Gln Asn Ala Glu Val Phe Tyr
 325 330 335

His Met Cys Lys Phe Phe Ile Leu Gln Asn Arg Gly Asp Asn Leu Leu
 340 345 350

Pro Phe Leu Arg Lys Phe Ile Ala Ser Phe Phe Lys Pro Gly Phe Glu
 355 360 365

Lys Tyr Asn Asn Leu Asp Leu Phe Arg Tyr Leu Leu Asn Ile Pro Gly
 370 375 380

Pro Ile Asp Ile Pro Ser Arg Leu Cys Lys Gly Asn Phe Asp Asp Asp
 385 390 395 400

Met Phe Asn His Gln Val Pro Tyr Leu Trp Leu Ile Tyr Cys Leu Cys
 405 410 415

His Pro Leu Gln Ser Ser Ile Lys Glu Thr Val Glu Ala Tyr Glu Ala
 420 425 430

Ala Leu Gly Val Ala Met Arg Cys Asp Ile Val Gln Lys Ile Trp Met
 435 440 445

Asp Tyr Leu Val Phe Ala Asn Asn Arg Ala Ala Gly Ser Arg Asn Lys
 450 455 460

Val Gln Glu Phe Lys Phe Phe Thr Asp Leu Val Asn Arg Cys Leu Val
 465 470 475 480

Thr Val Pro Ala Arg Tyr Pro Ile Pro Phe Ser Ser Ala Asp Tyr Trp
 485 490 495

4307

Ser Asn Tyr Glu Phe His Asn Arg Val Ile Phe Phe Tyr Leu Ser Cys
 500 505 510

Val Pro Lys Thr Gln His Ser Lys Thr Leu Glu Arg Phe Cys Ser Val
 515 520 525

Met Pro Ala Asn Ser Gly Leu Ala Leu Arg Leu Leu Gln His Glu Trp
 530 535 540

Glu Glu Ser Asn Val Gln Ile Leu Lys Leu Gln Ala Lys Met Phe Thr
 545 550 555 560

Tyr Asn Ile Pro Thr Cys Leu Ala Thr Trp Lys Ile Ala Ile Ala Ala
 565 570 575

Glu Ile Val Leu Lys Gly Gln Arg Glu Val His Arg Leu Tyr Gln Arg
 580 585 590

Ala Leu Gln Lys Leu Pro Leu Cys Ala Ser Leu Trp Lys Asp Gln Leu
 595 600 605

Leu Phe Glu Ala Ser Glu Gly Gly Lys Thr Asp Asn Leu Arg Lys Leu
 610 615 620

Val Ser Lys Cys Gln Glu Ile Gly Val Ser Leu Asn Glu Leu Leu Asn
 625 630 635 640

Leu Asn Ser Asn Lys Thr Glu Ser Lys Asn His
 645 650

<210> 4733

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

4309

<210> 4734

<211> 244

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (232)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4734

Ser	Thr	Phe	Asp	Lys	Gly	Tyr	Gly	Lys	Tyr	Phe	Ala	Ala	Gly	Glu	Lys
1				5				10						15	

Tyr	His	Thr	Ser	Ser	Val	Phe	His	Lys	Ala	Gln	Arg	Ala	Arg	Trp	Lys
			20					25					30		

Asn	Arg	Arg	Ser	Trp	Arg	Leu	Ser	Gly	Val	His	Trp	Ser	Pro	Ile	Phe
			35				40					45			

Cys	Arg	Ile	Ser	Ala	Leu	Lys	Val	Gly	Ala	Asp	Leu	Ser	His	Val	Phe
	50					55					60				

Cys	Ala	Ser	Ala	Ala	Ala	Pro	Val	Ile	Lys	Ala	Tyr	Ser	Pro	Glu	Leu
65					70					75				80	

Ile	Val	His	Pro	Val	Leu	Asp	Ser	Pro	Asn	Ala	Val	His	Glu	Val	Glu
				85					90					95	

Lys	Trp	Leu	Pro	Arg	Leu	His	Ala	Leu	Val	Val	Gly	Pro	Gly	Leu	Gly
		100						105					110		

Arg	Asp	Asp	Ala	Leu	Leu	Arg	Asn	Val	Gln	Gly	Ile	Leu	Glu	Val	Ser
		115					120					125			

Lys	Ala	Arg	Asp	Ile	Pro	Val	Val	Ile	Asp	Ala	Asp	Gly	Leu	Trp	Xaa
	130					135					140				

Val	Ala	Gln	Gln	Pro	Ala	Leu	Ile	His	Gly	Tyr	Arg	Lys	Ala	Val	Leu
145					150					155				160	

Thr	Pro	Asn	His	Val	Glu	Phe	Ser	Arg	Leu	Tyr	Asp	Ala	Val	Leu	Arg
				165					170					175	

4310

Gly Pro Met Asp Ser Asp Asp Ser His Gly Ser Val Leu Arg Leu Ser
 180 185 190

Gln Ala Leu Gly Asn Val Thr Val Val Gln Lys Gly Glu Arg Asp Ile
 195 200 205

Leu Ser Asn Gly Gln Gln Val Leu Val Cys Ser Gln Glu Gly Ser Ser
 210 215 220

Ala Gly Val Glu Gly Lys Gly Xaa Ser Cys Arg Ala Pro Trp Ala Ser
 225 230 235 240

Trp Tyr Thr Gly

<210> 4735

<211> 107

<212> PRT

<213> Homo sapiens

<400> 4735

Arg Asn Lys Ser Gln Met Gln Arg Tyr Asn Phe His Tyr Leu Lys Tyr
 1 5 10 15

Ile Val His Phe Tyr Arg Thr Cys Asp Tyr Ser Arg Met Ile Arg Met
 20 25 30

Val Leu Ala Tyr Gly Glu Leu Leu Leu Leu Thr Val Ser Ala Glu Ile
 35 40 45

Leu Phe Gln Trp Thr Asn Ile Val Ala Trp Gln Gln Met Pro Thr Phe
 50 55 60

Cys Gly Ile Ala Ala Asn Leu Gln Glu Thr Leu Val Gly Phe Ser Phe
 65 70 75 80

Cys Phe Leu Cys Phe Phe Pro Leu Leu Leu Asn Gln Gln Gly Trp Lys
 85 90 95

Glu Gly Arg Glu Val Met Asn Tyr Ser Phe Gln
 100 105

<210> 4736

<211> 78

<212> PRT

<213> Homo sapiens

4311

<400> 4736

Val Val Ser Cys Gly Val Phe Phe Lys Lys Phe Asp Leu Ala Phe Ile
 1 5 10 15

Phe Ser Ile Leu Phe Pro Ile Lys Ser Met Gln Ile Ile Cys Pro Lys
 20 25 30

Leu Ser Ser Ser Ser Asp Ser Ala Phe Val Leu Cys Gln Ser His Phe
 35 40 45

His Leu Leu Pro Trp Phe His Arg Ser Phe Val Ser Trp Ala Ser Arg
 50 55 60

Lys Ile Lys Leu Tyr Leu Phe Cys Ile Cys Glu Met Phe Lys
 65 70 75

<210> 4737

<211> 171

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (164)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4737

Gly His Ser Glu Trp Val Ser Cys Val Arg Phe Ser Pro Asn Ser Ser
 1 5 10 15

Asn Pro Ile Ile Val Ser Cys Gly Trp Asp Lys Leu Val Lys Val Trp
 20 25 30

Asn Leu Ala Asn Cys Lys Leu Lys Thr Asn His Ile Gly His Thr Gly
 35 40 45

Tyr Leu Asn Thr Val Thr Val Ser Pro Asp Gly Ser Leu Cys Ala Ser
 50 55 60

Gly Gly Lys Asp Gly Gln Ala Met Leu Trp Asp Leu Asn Glu Gly Lys
 65 70 75 80

His Leu Tyr Thr Leu Asp Gly Gly Asp Ile Ile Asn Ala Leu Cys Phe
 85 90 95

Ser Pro Asn Arg Tyr Trp Leu Cys Ala Ala Thr Gly Pro Ser Ile Lys
 100 105 110

4312

Ile Trp Asp Leu Glu Gly Lys Ile Ile Val Asp Glu Leu Lys Gln Glu
 115 120 125

Val Ile Ser Thr Ser Ser Lys Ala Glu Pro Pro Gln Cys Thr Ser Leu
 130 135 140

Ala Trp Ser Ala Asp Gly Gln Thr Leu Phe Ala Gly Tyr Thr Asp Asn
 145 150 155 160

Leu Val Arg Xaa Gly Ser Asp His Trp Thr Arg
 165 170

<210> 4738

<211> 159

<212> PRT

<213> Homo sapiens

<400> 4738

Thr Pro Arg Asp Leu Val Cys Leu Gly Leu Ser Ser Ile Val Gly Val
 1 5 10 15

Trp Tyr Leu Leu Arg Lys His Trp Ile Ala Asn Asn Leu Phe Gly Leu
 20 25 30

Ala Phe Ser Leu Asn Gly Val Glu Leu Leu His Leu Asn Asn Val Ser
 35 40 45

Thr Gly Cys Ile Leu Leu Gly Gly Leu Phe Ile Tyr Asp Val Phe Trp
 50 55 60

Val Phe Gly Thr Asn Val Met Val Thr Val Ala Lys Ser Phe Glu Ala
 65 70 75 80

Pro Ile Lys Leu Val Phe Pro Gln Asp Leu Leu Glu Lys Gly Leu Glu
 85 90 95

Ala Asn Asn Phe Ala Met Leu Gly Leu Gly Asp Val Val Ile Pro Gly
 100 105 110

Ile Phe Ile Ala Leu Leu Leu Arg Phe Asp Ile Ser Leu Lys Lys Asn
 115 120 125

Thr His Thr Tyr Phe Tyr Thr Ser Phe Ala Ala Tyr Ile Phe Gly Leu
 130 135 140

Gly Leu Thr Ile Phe Ile Met His Ile Phe Lys His Ala Gln Leu
 145 150 155

4313

<210> 4739

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4739

Tyr Lys Tyr Arg Glu Glu Val Ser Met Asn Leu Xaa Ile Val Leu Ser
 1 5 10 15

Asn Pro Leu Glu Cys Gln Ser Leu Lys Asp Phe Ala Leu Leu His Gln
 20 25 30

Ile Thr Ser Phe Ser Gln Ile Pro Ile Ser Val Ile Thr Gly Ala Asn
 35 40 45

Leu Lys Val Leu Tyr Ser Phe Thr Thr Leu Gln Ile Cys Asn Ala Ala
 50 55 60

Tyr Asn Ala Glu Glu His
 65 70

<210> 4740

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4740

Thr Lys Xaa Lys Ser Gly Glu Leu Ala Val Thr Ser Thr Gly Gly His
 1 5 10 15

Gly Arg Glu Gly Ser Leu Leu Glu Gly Leu Pro Trp Arg Leu Glu Trp
 20 25 30

Gly Leu Pro Gly Arg Pro Ala Phe His Pro Cys Leu Pro His Pro Cys
 35 40 45

His Arg Leu Cys Thr Pro Leu Asp Gly Gly Ser Lys Pro Gly Thr Val
 50 55 60

4314

Pro Val Leu Val Arg Val Ile Ile Met Ile Asn Ile Asn Tyr Asp Ala
 65 70 75 80

Lys Asn Cys Trp Ala Asn Phe Glu Asp Leu Asn Leu Leu Gln
 85 90

<210> 4741

<211> 128

<212> PRT

<213> Homo sapiens

<400> 4741

Pro Ser Ser Leu Arg Lys Glu Ser Glu Ser Arg Glu Val Asp Ala Ser
 1 5 10 15

Tyr Leu Leu Glu Arg Pro Ser Ser Val Ser Val Val Val Thr Ala Pro
 20 25 30

Ser Ala Met Ser Phe Ser Ala Thr Ile Leu Phe Ser Pro Pro Ser Gly
 35 40 45

Ser Glu Ala Arg Cys Cys Cys Cys Ala Cys Lys Ser Glu Thr Asn Gly
 50 55 60

Gly Asn Thr Gly Ser Gln Gly Gly Asn Pro Pro Pro Ser Thr Pro Ile
 65 70 75 80

Thr Val Thr Gly His Gly Leu Ala Val Gln Ser Ser Glu Gln Leu Leu
 85 90 95

His Val Ile Tyr Gln Arg Val Asp Lys Ala Val Gly Leu Ala Glu Ala
 100 105 110

Ala Leu Gly Leu Ala Arg Ala Asn Asn Glu Leu Leu Lys Arg Leu Gln
 115 120 125

<210> 4742

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4315

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4742

Arg Lys Phe Ser Leu Thr His Ser Tyr Gln Ala Ser Ile Ile Gln Ile

1

5

10

15

Pro Lys Pro Ile Ile Asp Thr Thr Thr Thr Thr Thr Thr Thr His

20

25

30

His Ala Asn Val Phe Gly Lys His Cys Ala Lys Ile Leu Asn Lys Ile

35

40

45

Leu Ala Ser Gln Ile Gln Gln His Ile Lys Lys Phe Ile Xaa Asn Asn

50

55

60

Gly Val Gly Phe Val Pro Arg Met Gln Gly

65

70

<210> 4743

<211> 149

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4743

Ser Trp Ser Arg Glu Arg Ala Pro Ala Pro Leu Trp Glu Asp Arg Glu

1

5

10

15

Met Pro Val Leu Lys Gln Leu Gly Pro Ala Gln Pro Lys Lys Arg Pro

20

25

30

Asp Arg Gly Ala Leu Ser Ile Ser Ala Pro Leu Gly Asp Phe Arg His

35

40

45

4316

Thr Leu His Val Gly Arg Gly Gly Asp Ala Phe Gly Asp Thr Ser Phe
 50 55 60
 Leu Ser Arg His Gly Gly Gly Pro Pro Pro Ser Pro Gly Arg Pro Pro
 65 70 75 80
 Arg Gly Pro Arg Xaa Pro Arg Arg Arg Arg Arg Pro Gln Ser Ala Ala
 85 90 95
 Pro Arg Leu Arg Pro Ala Val Pro Ser Pro Gly Ser Gly Ala Ser Cys
 100 105 110
 Trp Thr Arg Cys Trp Arg Met Asp Ala Ala Arg Arg Ser Gly Cys Ala
 115 120 125
 Ser His Ala Asn Pro Pro Gly Xaa Ala Pro Ala Val Arg His Ala Thr
 130 135 140
 Xaa Tyr Thr Met Ala
 145

<210> 4744

<211> 167

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4744

Arg Arg Pro Arg Ser Arg Leu Arg Val Thr Ser Val Ser Asp Gln Asn
 1 5 10 15
 Asp Arg Val Val Glu Cys Gln Leu Gln Thr His Asn Ser Lys Met Val
 20 25 30
 Thr Phe Arg Phe Asp Leu Asp Gly Asp Ser Pro Glu Glu Ile Ala Ala
 35 40 45
 Ala Met Val Tyr Asn Glu Phe Ile Leu Pro Ser Glu Arg Asp Gly Phe
 50 55 60

4317

Leu Arg Arg Ile Arg Glu Ile Ile Gln Arg Val Glu Thr Leu Leu Lys
 65 70 75 80
 Arg Asp Thr Gly Pro Met Glu Ala Ala Glu Asp Thr Leu Ser Pro Gln
 85 90 95
 Glu Glu Pro Ala Pro Leu Pro Ala Leu Pro Val Pro Leu Pro Asp Pro
 100 105 110
 Ser Asn Glu Glu Leu Gln Ser Ser Thr Ser Leu Glu His Arg Ser Trp
 115 120 125
 Thr Ala Phe Ser Thr Ser Phe Ile Leu Ser Ser Trp Glu Leu Leu Cys
 130 135 140
 Leu Leu Gly Asn Pro Phe Ser Pro Gly Thr Pro Ile Phe Pro Arg Val
 145 150 155 160
 Pro Xaa Phe Pro Ile Xaa Phe
 165

<210> 4745

<211> 279

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (247)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4745

Ala Gln Asp Gln Trp Ser Glu Leu Phe Met Asp Ala Leu Gly Pro Phe
 1 5 10 15
 Asn Phe Val Leu Val Ser Ser Val Arg Met Gln Gly Val Ile Leu Leu
 20 25 30
 Leu Phe Ala Lys Tyr Tyr His Leu Pro Phe Leu Arg Asp Val Gln Thr
 35 40 45
 Asp Cys Thr Arg Thr Gly Leu Gly Gly Tyr Trp Gly Asn Lys Gly Gly
 50 55 60
 Val Ser Val Arg Leu Ala Ala Phe Gly His Met Leu Cys Phe Leu Asn
 65 70 75 80
 Cys His Leu Pro Ala His Met Asp Lys Ala Glu Gln Arg Lys Asp Asn
 85 90 95

4318

Phe Gln Thr Ile Leu Ser Leu Gln Gln Phe Gln Gly Pro Gly Ala Gln
 100 105 110
 Gly Ile Leu Asp His Asp Leu Val Phe Trp Phe Gly Asp Leu Asn Phe
 115 120 125
 Arg Ile Glu Ser Tyr Asp Leu His Phe Val Lys Phe Ala Ile Asp Ser
 130 135 140
 Asp Gln Leu His Gln Leu Trp Glu Lys Asp Gln Leu Asn Met Ala Lys
 145 150 155 160
 Asn Thr Trp Pro Ile Leu Lys Gly Phe Gln Glu Gly Pro Leu Asn Phe
 165 170 175
 Ala Pro Thr Phe Lys Phe Asp Val Gly Thr Asn Lys Tyr Asp Thr Ser
 180 185 190
 Ala Lys Lys Arg Lys Pro Ala Trp Thr Asp Arg Ile Leu Trp Lys Val
 195 200 205
 Lys Ala Pro Gly Gly Gly Pro Ser Pro Ser Gly Arg Lys Ser His Arg
 210 215 220
 Leu Gln Val Thr Gln His Ser Tyr Arg Ser His Met Glu Tyr Thr Val
 225 230 235 240
 Ser Asp His Lys Pro Val Xaa Ala Gln Phe Leu Leu Gln Phe Ala Phe
 245 250 255
 Gln Gly Arg His Ala Thr Gly Ala Ala Gly Gly Gly Gln Met Ser Gly
 260 265 270
 Cys Gly Pro Ser Arg Arg Trp
 275

<210> 4746

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4746

Pro Met Ala Leu Ala Lys Thr Ala Ile Leu Val Arg Leu Ser Tyr Phe

4319

1 5 10 15
 Leu Phe Ile Asp Thr Ser Thr Xaa Thr Ala Phe Leu Ser Ser Val Asp
 20 25 30
 Leu His Thr His Cys Ser Tyr Gln Leu Met Leu Pro Glu Ala Ile Ala
 35 40 45
 Ile Val Cys Ser Pro Lys His Lys Asp Thr Gly Ile Phe Arg Leu Thr
 50 55 60
 Asn Ala Gly Met Leu Glu Val Ser Ala Cys Lys Lys Lys Gly Phe His
 65 70 75 80
 Pro His Thr Lys Glu Pro Arg Leu Phe Ser Ile Cys Lys His Val Leu
 85 90 95
 Val Lys Asp Ile Lys Ile Ile Val Leu Asp Leu Arg
 100 105

<210> 4747

<211> 84

<212> PRT

<213> Homo sapiens

<400> 4747

Lys Glu Met Val Ile Leu Trp Thr Met Glu Thr Ser Ser Glu Tyr Ala
 1 5 10 15
 Asp Phe Pro Leu Leu Thr Leu Pro Ser Leu Trp Leu Leu Leu Pro Asp
 20 25 30
 Lys Gly Gln Gly His Leu Lys Thr Leu Pro Pro Val Gly Phe Gly Val
 35 40 45
 Thr Gly Ala Ser Ala Cys Ser His Ile Phe Gln Lys Gly Ser Ala Leu
 50 55 60
 Arg Thr Ser Leu Tyr Leu Gly Phe Leu Ile Pro Leu Ala Val Leu Thr
 65 70 75 80
 Ser Arg Glu Thr

<210> 4748

<211> 65

<212> PRT